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=> d his 130-134

(FILE 'HCAPLUS' ENTERED AT 16:02:33 ON 26 FEB 2003)

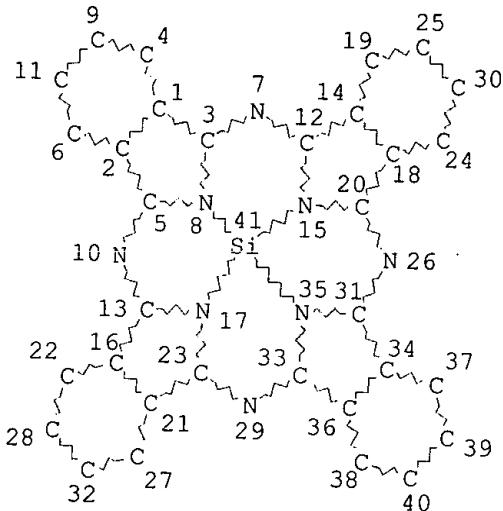
L30 359 S L29 ← Total citations having related structures  
 L31 7 S L30 AND (L11-L13)  
 L32 4 S L30 AND (FLUORESCENT(3A) (PARTICL? OR LIPOSOM? OR MICROSPHERE?)  
 L33 0 S L30 AND (FLUORESCENT(5A) (PHAGE# OR CELL# OR ENCAPSULAT? OR EN  
 L34 4 S L31 AND L32 ← All four of articles containing fluorescent particles  
 were by inventors

citations with  
requested  
structures  
along with  
fluorescent  
particles etc.

=> d que 131

L6 8922 SEA FILE=REGISTRY C>=32 AND H>=18 AND N>=8 AND SI>=1  
 L7 8112 SEA FILE=REGISTRY L6 AND O>=2  
 L11 86 SEA FILE=HCAPLUS BUECHLER K?/AU  
 L12 30 SEA FILE=HCAPLUS NOAR J?/AU  
 L13 13 SEA FILE=HCAPLUS TADESSE L?/AU  
 L24 STR

Substances having at least  
32 carbons, at least 18  
hydrogens, at least 8 nitrogens,  
at least one silicon, and at least  
2 oxygens



← Parent structure showing  
core phthalocyanine with complexed  
silicon

#### NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

#### GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 41

#### STEREO ATTRIBUTES: NONE

L27 2189 SEA FILE=REGISTRY SUB=L7 SSS FUL L24 ← searched structure L24 on answer set L7  
 L28 2081 SEA FILE=REGISTRY L27 AND SI<=4  
 L29 924 SEA FILE=REGISTRY L28 AND SI=3 further limited to compounds having exactly 3 silicones  
 L30 359 SEA FILE=HCAPLUS L29  
 L31 7 SEA FILE=HCAPLUS L30 AND ((L11 OR L12 OR L13))

=> d ibib abs hitstr 131 1-7

L31 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2002:392193 HCAPLUS  
 DOCUMENT NUMBER: 136:356382

← Citations having the  
above parameters by  
the inventors

TITLE: Hybrid phthalocyanine derivatives and their uses  
 INVENTOR(S): Buechler, Kenneth F.; Noar, Joseph  
 PATENT ASSIGNEE(S): B.; Tadesse, Lema  
 SOURCE: USA  
 U.S. Pat. Appl. Publ., 61 pp., Cont.-in-part of U.S.  
 Ser. No. 66,255.  
 DOCUMENT TYPE: CODEN: USXXCO  
 Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 7  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002061602	A1	20020523	US 2001-776599	20010201
US 6238931	B1	20010529	US 1994-274534	19940712
WO 9508772	A1	19950330	WO 1994-US10826	19940923
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5763189	A	19980609	US 1994-311098	19940923
US 6251687	B1	20010626	US 1995-409298	19950323
US 5824799	A	19981020	US 1996-620597	19960322
PRIORITY APPLN. INFO.:			US 1993-126367	B2 19930924
			US 1993-138708	B2 19931018
			US 1994-274534	A2 19940712
			US 1994-311098	A2 19940923
			WO 1994-US10826	W 19940923
			US 1995-409298	A2 19950323
			US 1995-409825	B2 19950323
			US 1996-620597	A1 19960322
			US 1998-66255	A2 19980424

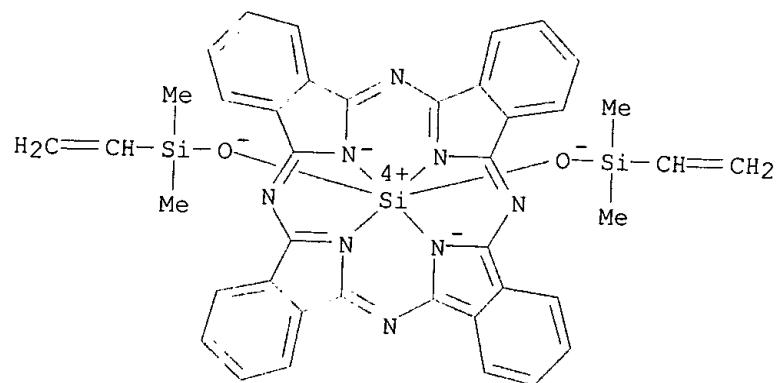
AB Water sol. hybrid phthalocyanine derivs. useful in competitive and noncompetitive assays immunoassays, nucleic acid and assays are disclosed and claimed having (1) at least one donor subunit with a desired excitation peak; and (2) at least one acceptor subunit with a desired emission peak, wherein said deriv.(s) is/are capable of intramol. energy transfer from said donor subunit to said acceptor subunit. Such derivs. also may contain an electron transfer subunit. Axial ligands may be covalently bound to the metals contained in the water sol. hybrid phthalocyanine derivs. Ligands, ligand analogs, polypeptides, proteins and nucleic acids can be linked to the axial ligands of the dyes to form dye conjugates useful in immunoassays and nucleic acid assays.

IT 68812-20-4P 92396-89-9P 163968-88-5P  
 163968-89-6P 163968-92-1P 163968-94-3P  
 163968-95-4P 163969-09-3P 163969-10-6P  
 183872-63-1P 209161-30-8P 209161-31-9P  
 209161-33-1P

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)  
 (prep. of hybrid phthalocyanine derivs. for uses in immunoassays and nucleic acid assays)

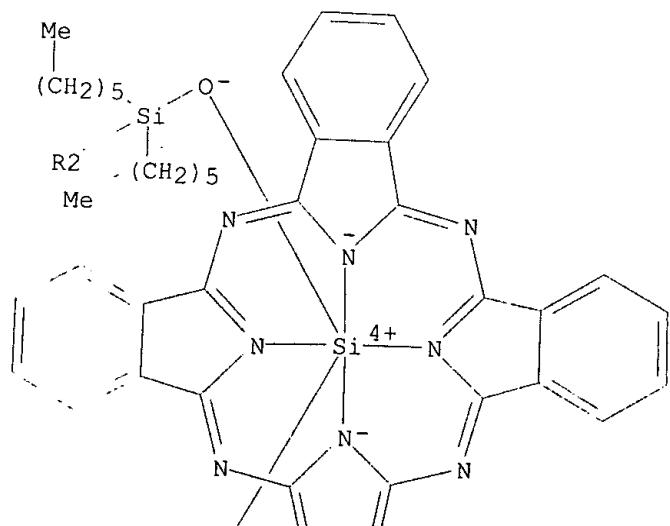
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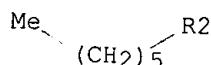
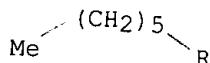
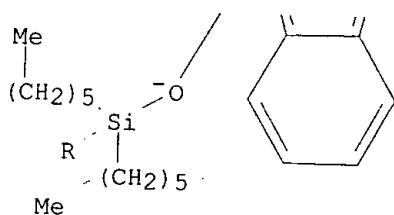
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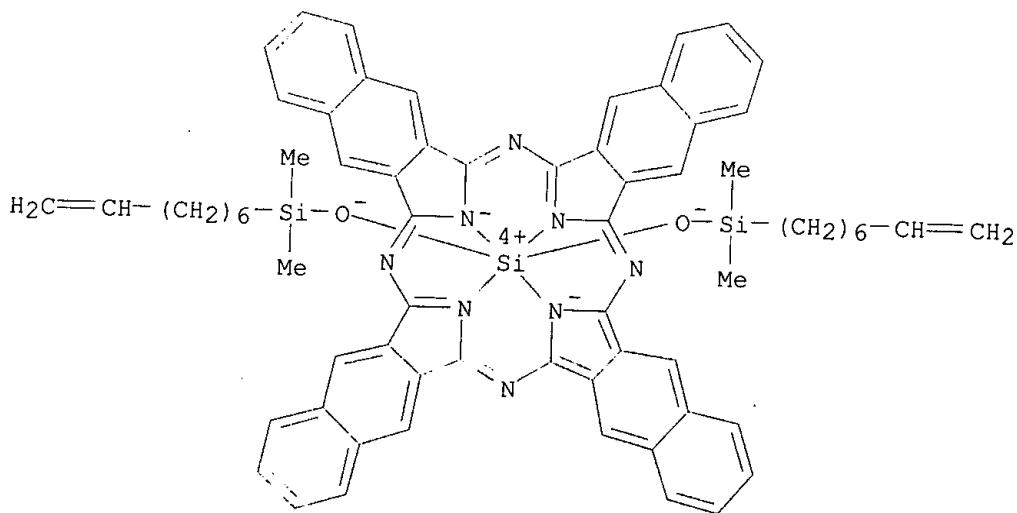
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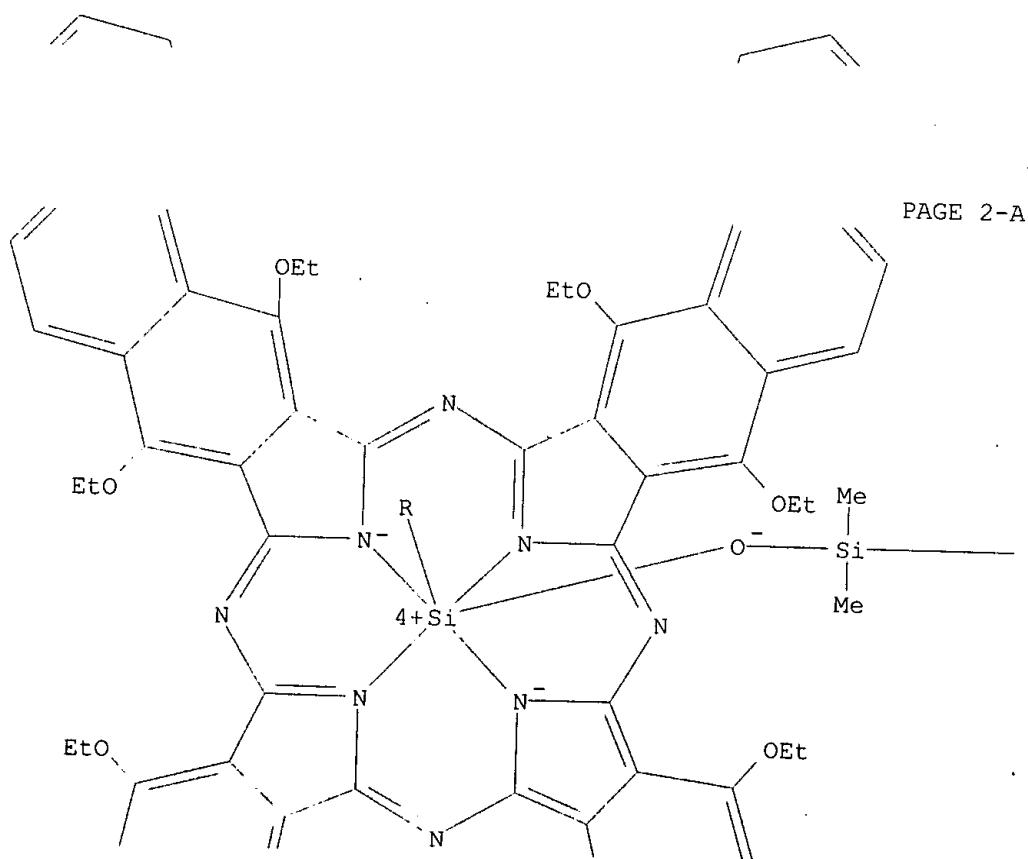


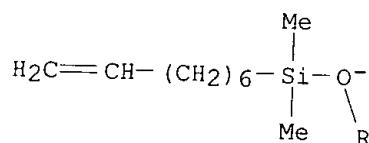
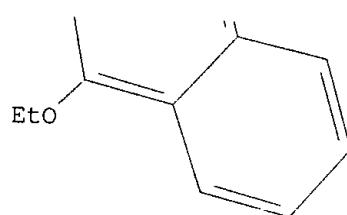
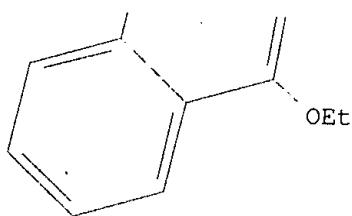
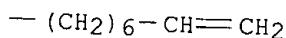


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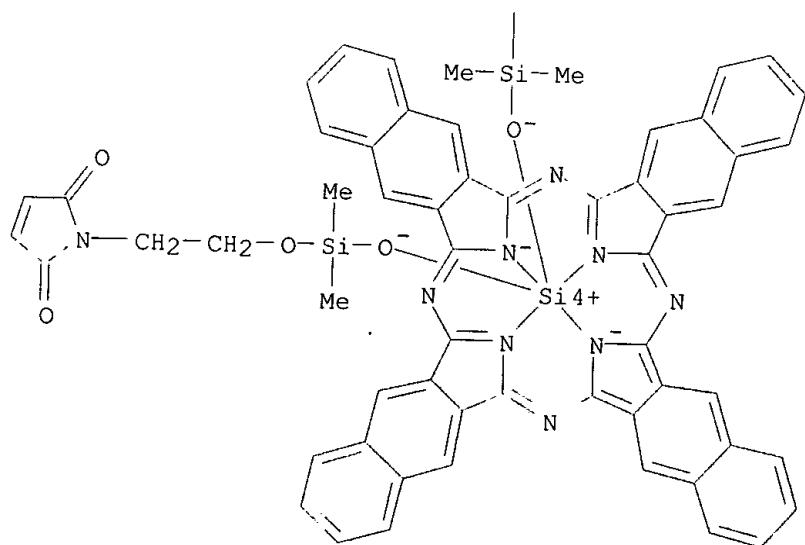
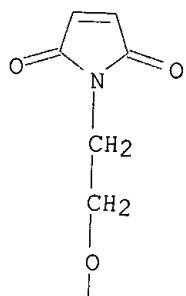


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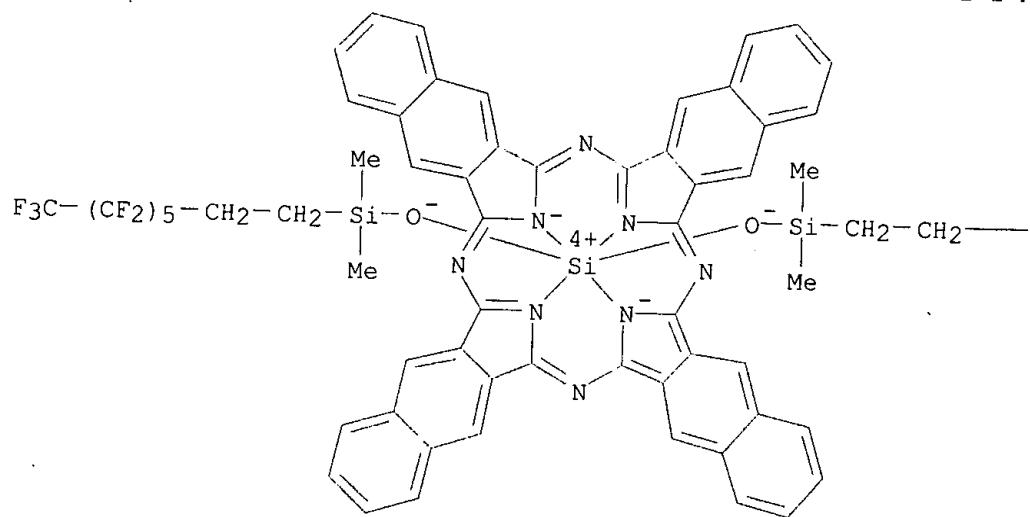


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q]porphyrazinato(2-).kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-,  
(OC-6-12)-(9CI) (CA INDEX NAME)



RN 163968-94-3 HCAPLUS  
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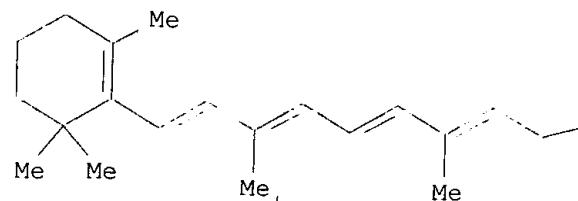
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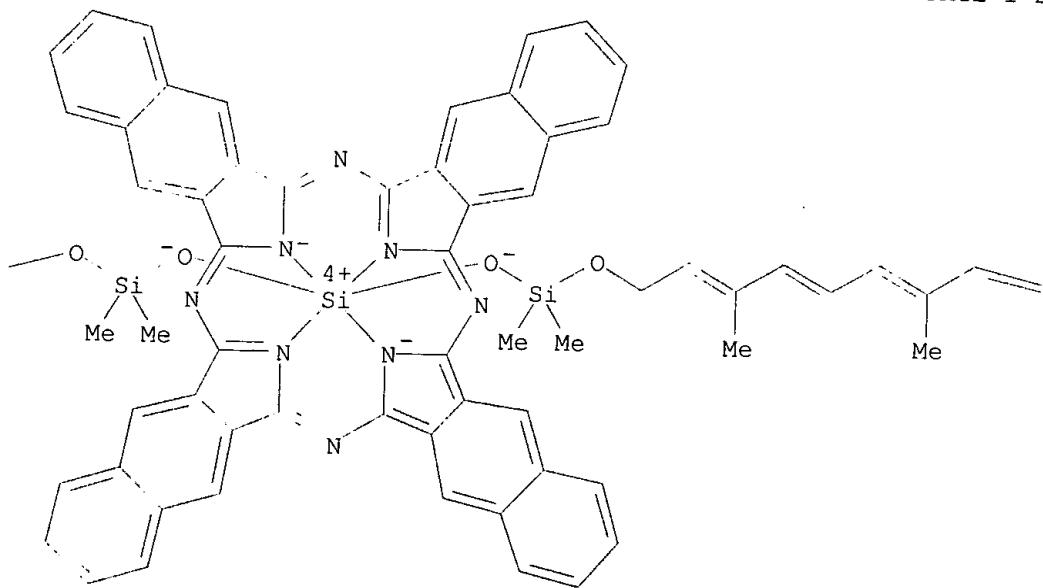
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Epperson 09/776,599

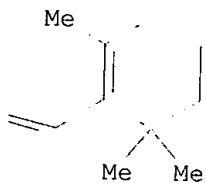
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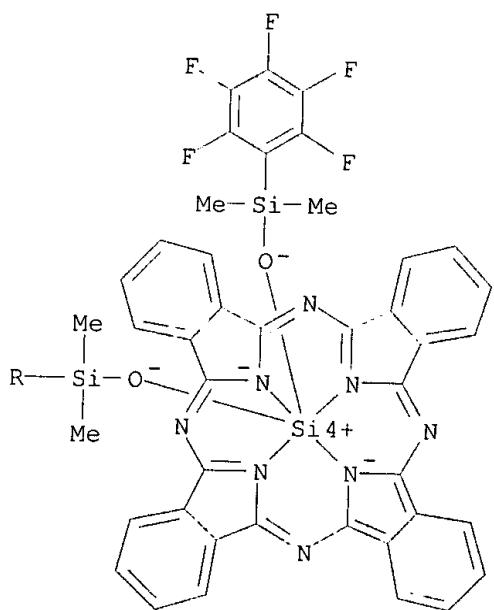
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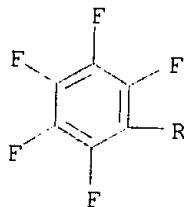


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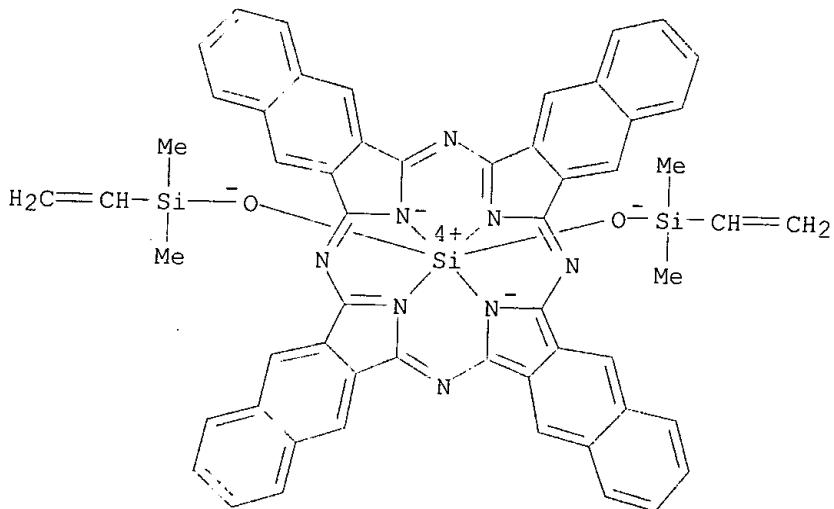
CN Silicon, bis[dimethyl(pentafluorophenyl)silanolato-.kappa.O] [29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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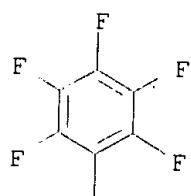


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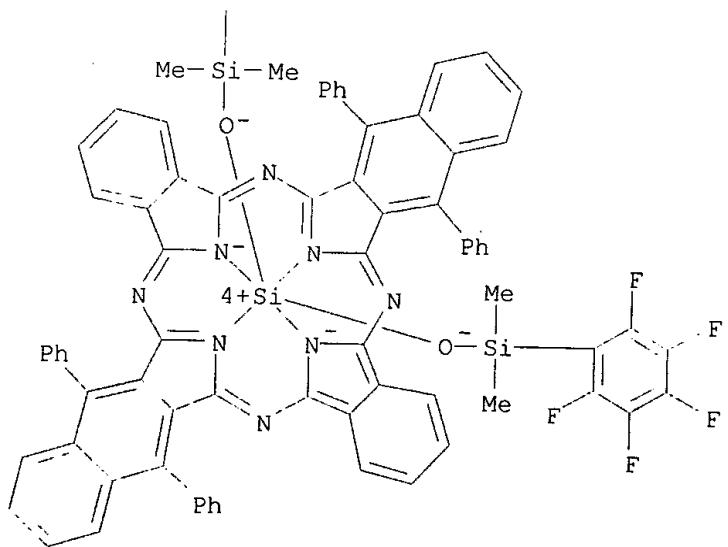


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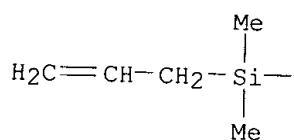


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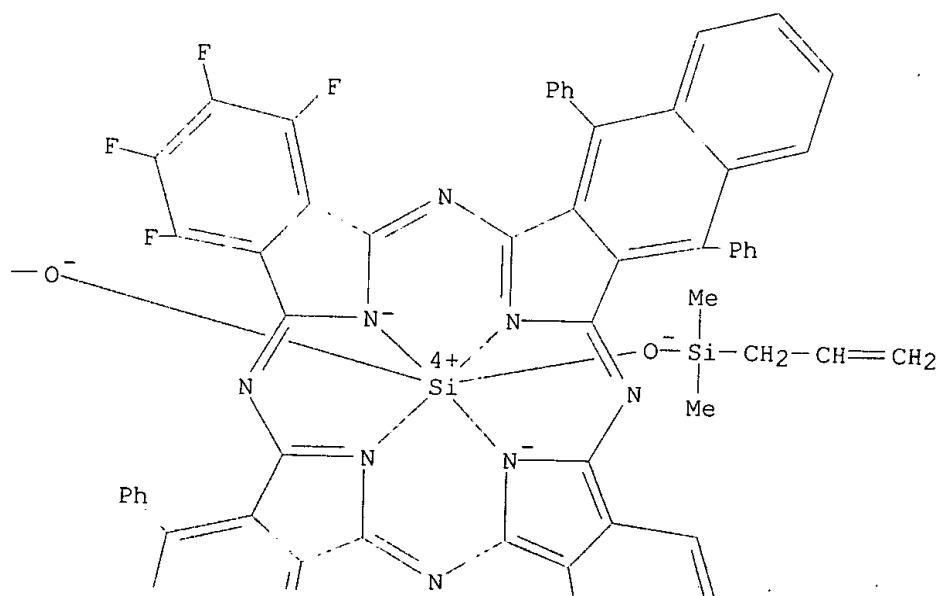


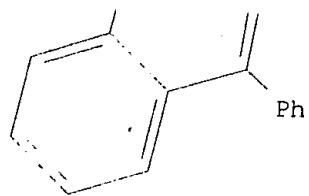
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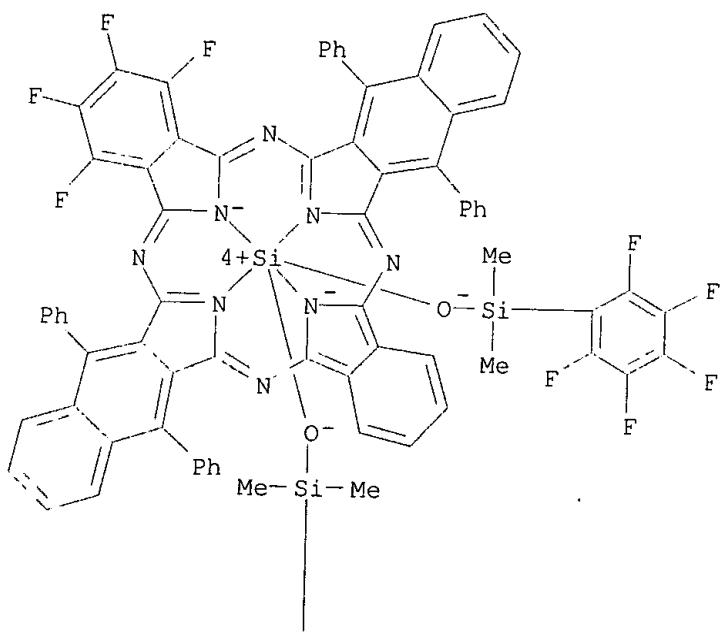




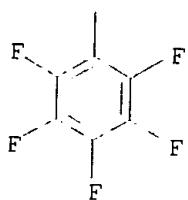
PAGE 2-B

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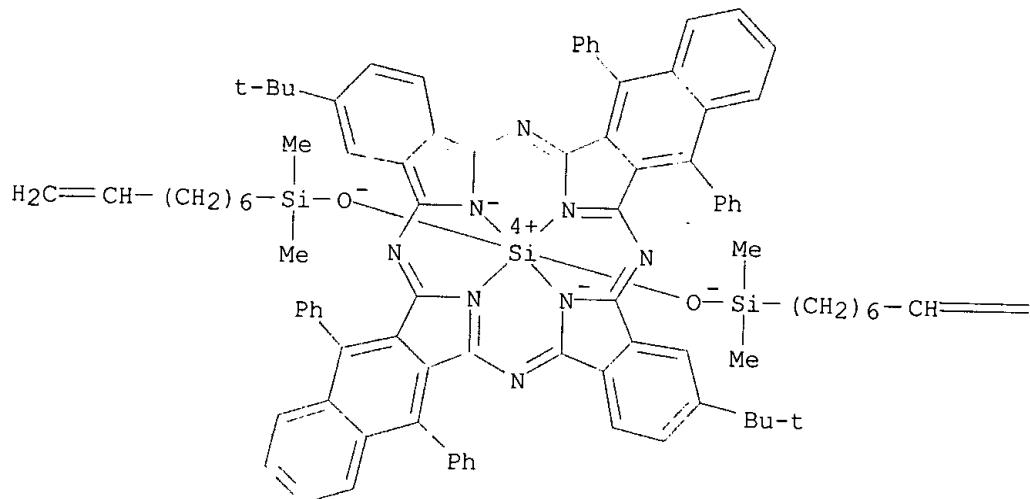


RN 209161-33-1 HCPLUS

Epperson 09/776,599

CN Silicon, [2,18-bis(1,1-dimethylethyl)-8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrazinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]bis(dimethyl-7-octenylsilanolato)-, (OC-6-12)- (9CI) (CA INDEX NAME)

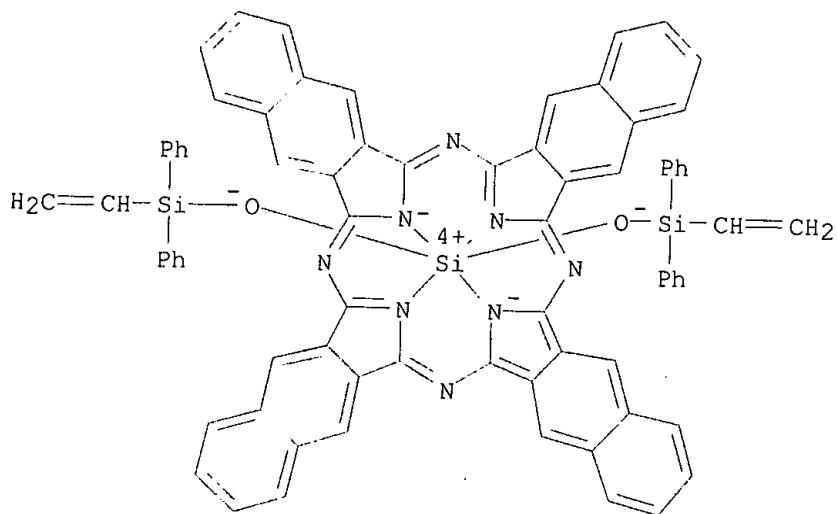
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PAGE 1-B

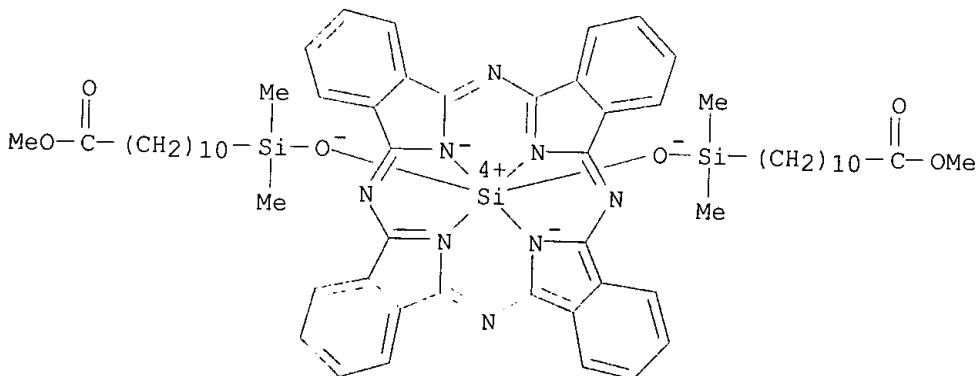
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183872-57-3P 183872-66-4P 209161-25-1P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of hybrid phthalocyanine derivs. for uses in immunoassays and  
nucleic acid assays)  
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RN 163969-07-1 HCAPLUS

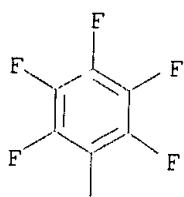
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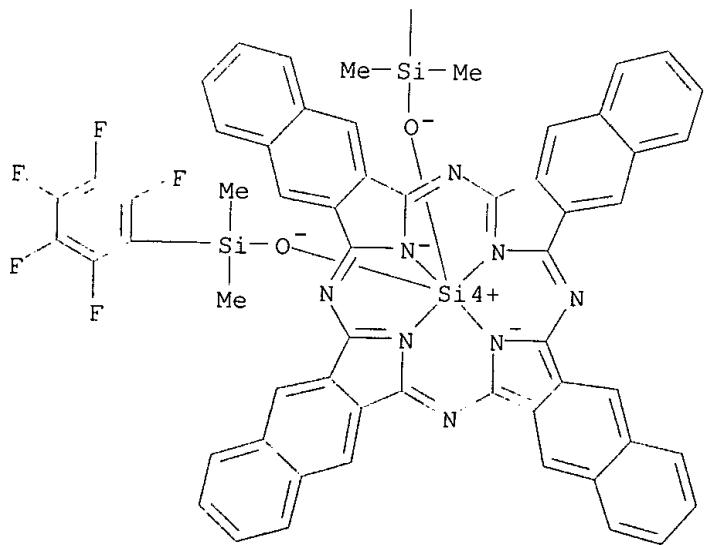
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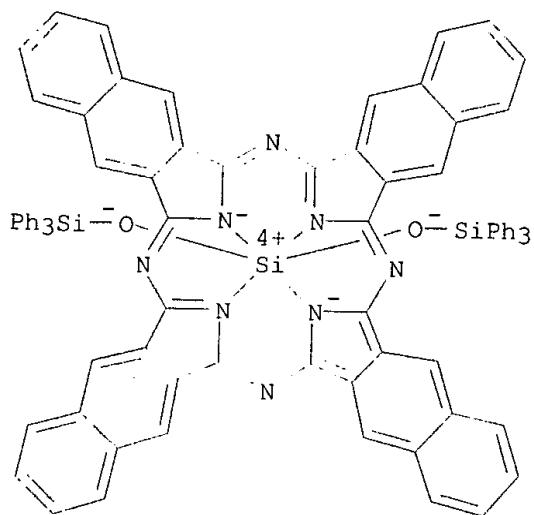
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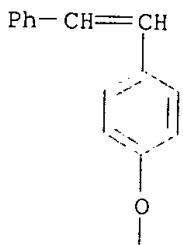
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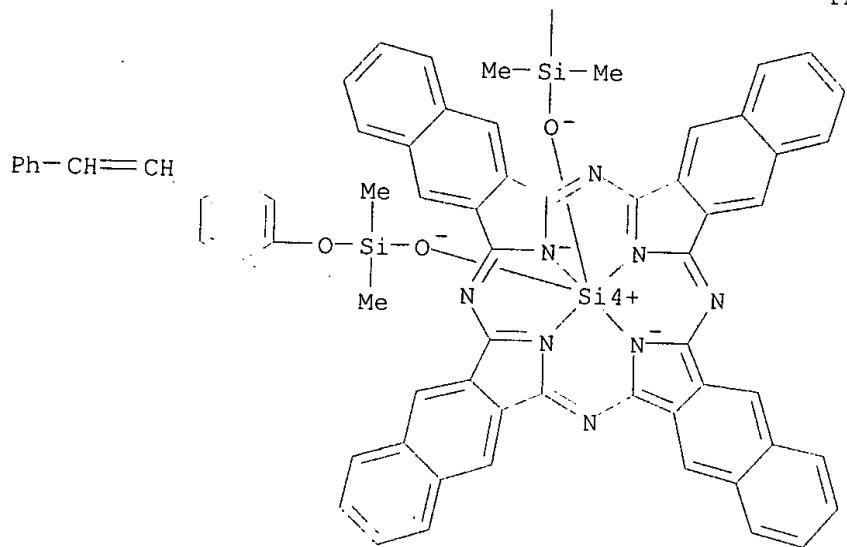
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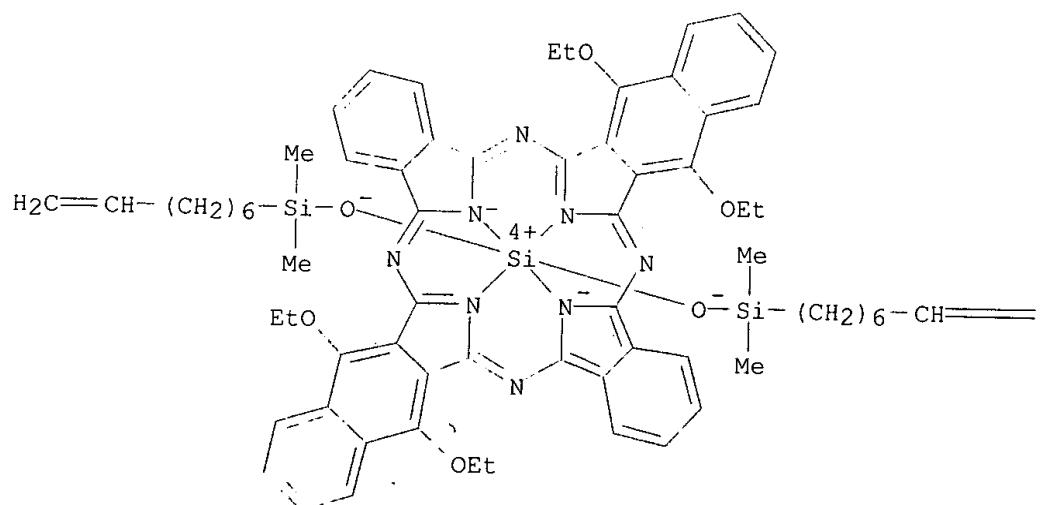
PAGE 2-A



RN 183872-56-2 HCPLUS

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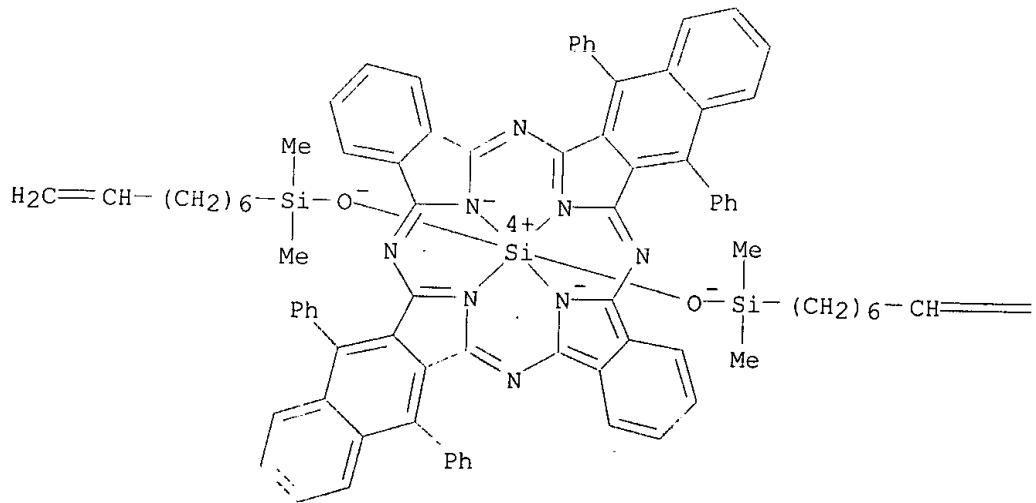


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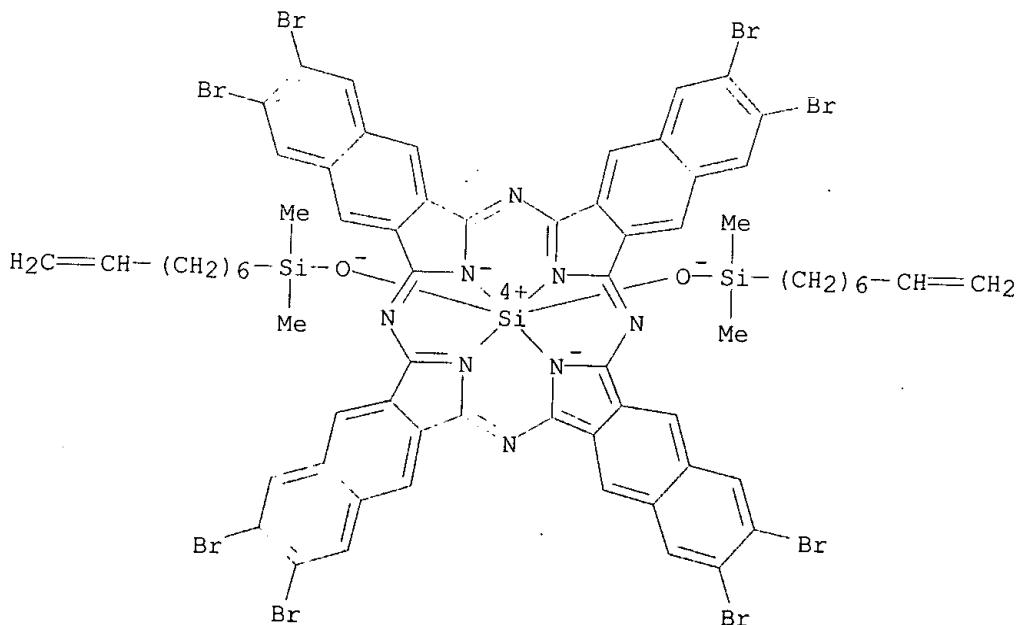
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RN 183872-66-4 HCPLUS  
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RN 209161-25-1 HCPLUS  
CN Silicon, bis[3-[hydroxy-.kappa.O]dimethylsilyl]propanenitrilato][29H,31H-phthalocyaninato(2-).kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (OC-6-12)- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L31 ANSWER 2 OF 7 HCPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:464312 HCPLUS  
DOCUMENT NUMBER: 135:78227  
TITLE: Fluorescence energy transfer and intramolecular energy

INVENTOR(S): transfer in particles using novel compounds  
 Buechler, Kenneth F.; Noar, Joseph  
 Barry; Tadesse, Lema

PATENT ASSIGNEE(S): Biosite Diagnostics, Inc., USA

SOURCE: U.S., 57 pp., Cont.-in-part of U.S. 5,763,189.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

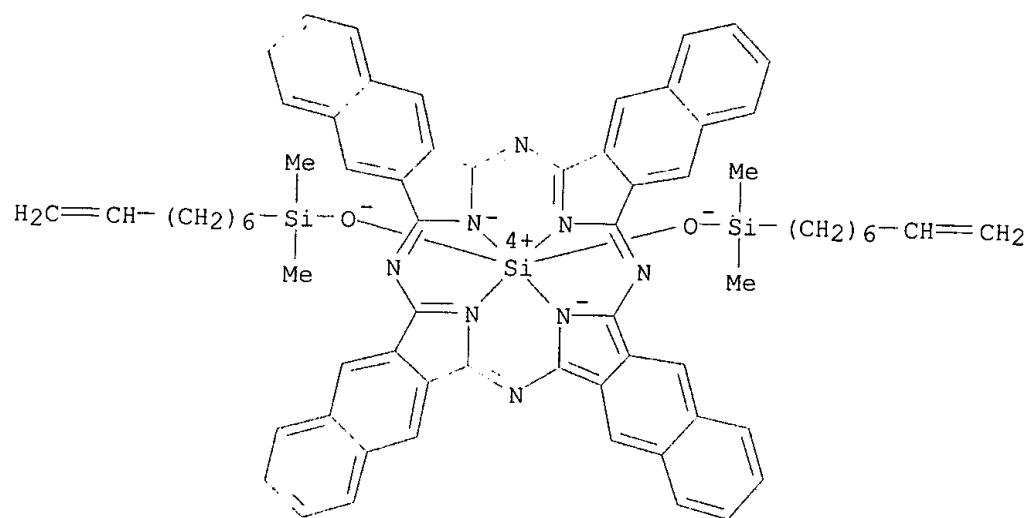
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6251687	B1	20010626	US 1995-409298	19950323
US 6238931	B1	20010529	US 1994-274534	19940712
US 5763189	A	19980609	US 1994-311098	19940923
US 2002061602	A1	20020523	US 2001-776599	20010201
PRIORITY APPLN. INFO.:				
		US 1993-126367	B2	19930924
		US 1993-138708	B2	19931018
		US 1994-274534	A2	19940712
		US 1994-311098	A2	19940923
		WO 1994-US10826	W	19940923
		US 1995-409298	A2	19950323
		US 1995-409825	B2	19950323
		US 1996-620597	A1	19960322
		US 1998-66255	A2	19980424

AB The invention describes the particles comprising an energy donor as a first component and a fluorescent dye as a second component positioned in said particles at an energy exchanging distance from one another, wherein the two components have a Stokes shift of greater than or equal to 50 nm, said particle having bound on its surface, a protein, polypeptide, nucleic acid, nucleotide or protein contg. ligand analog are disclosed and claimed. In addn., novel fluorescent dyes are described which exhibit intramol. energy transfer for use to label various mols., proteins, polypeptides, nucleotides and nucleic acids or to incorporate into particles.

IT 163968-88-5P 163968-89-6P 163968-94-3P  
 163968-95-4P 183872-48-2P 183872-56-2P  
 183872-57-3P 183872-61-9P 183872-62-0P  
 183872-63-1P 183872-66-4P 183872-71-1P  
 183872-74-4P 183872-76-6P 183872-77-7P  
 183872-79-9P 183872-84-6P 183872-94-8P  
 183872-95-9P 183872-96-0P 183873-19-0P  
 183873-20-3P 183973-60-6P 342373-96-0DP,  
 fluorescein ATP derivs.

RL: ARG (Analytical reagent use); IMF (Industrial manufacture); ANST (Analytical study); PREP (Preparation); USES (Uses)  
 (dye; fluorescence energy transfer and intramol. energy transfer in particles using novel compds., manuf. and use in assay of biomol.)

RN 163968-88-5 HCAPLUS  
 CN Silicon, bis(dimethyl-7-octenylsilanolato)[37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrizinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)



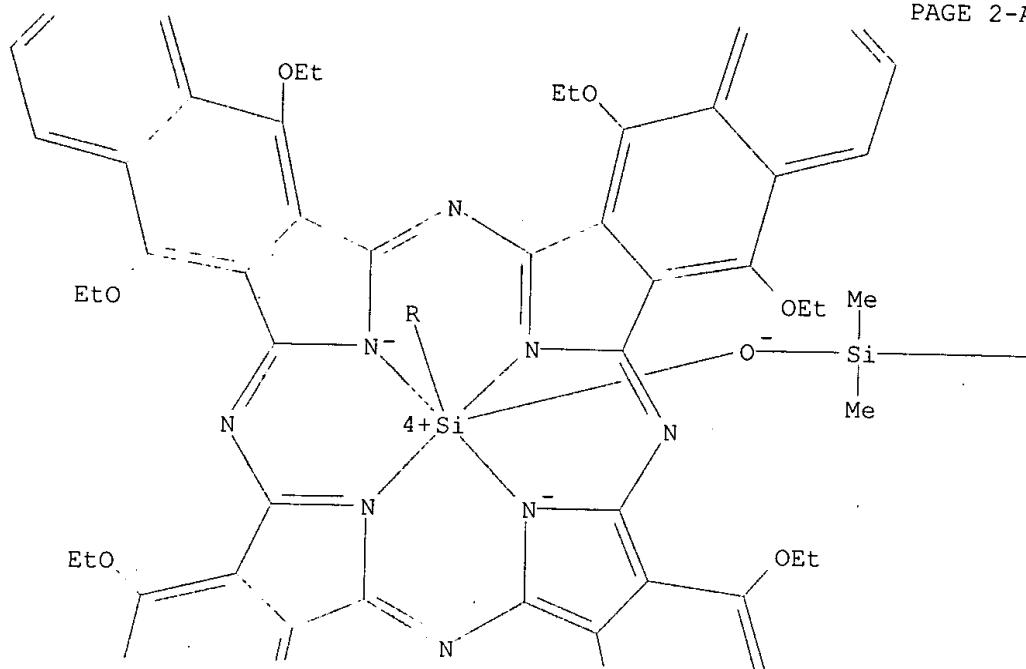
RN 163968-89-6 HCAPLUS

CN Silicon, bis(dimethyl-7-octenylsilanolato)[5,9,14,18,23,27,32,36-octaethoxy-37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-,(OC-6-12)- (9CI) (CA INDEX NAME)

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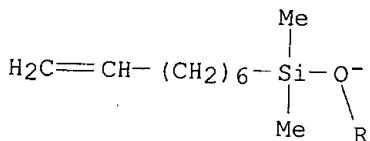
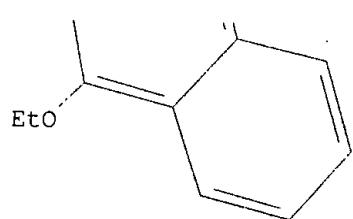
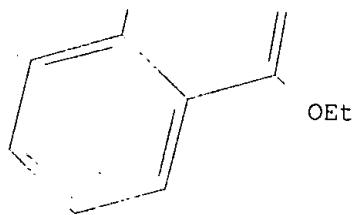
PAGE 2-A



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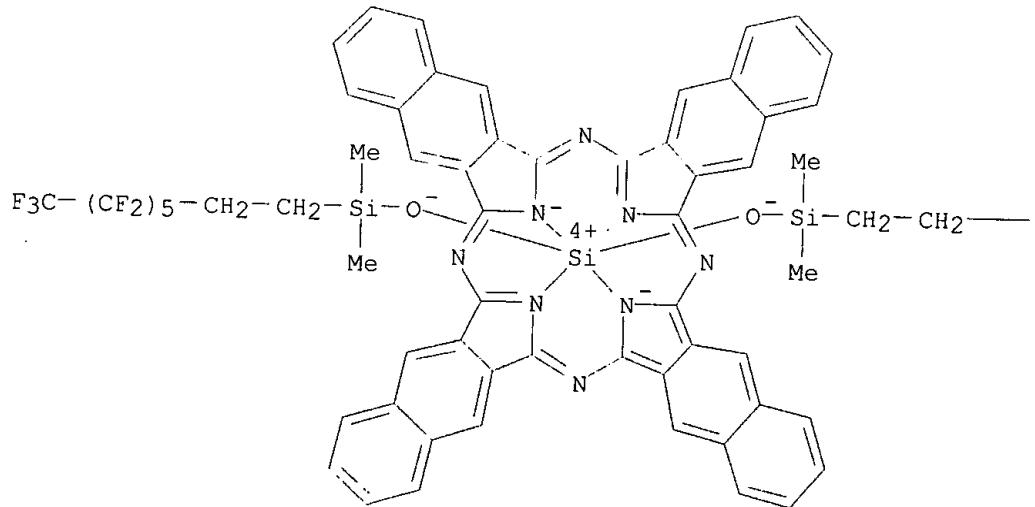
PAGE 3-A



RN 163968-94-3 HCPLUS

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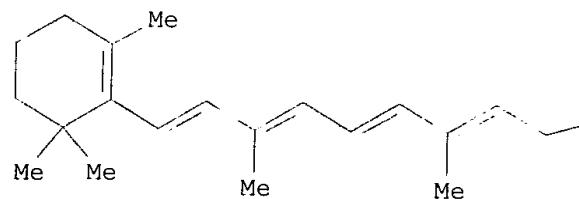


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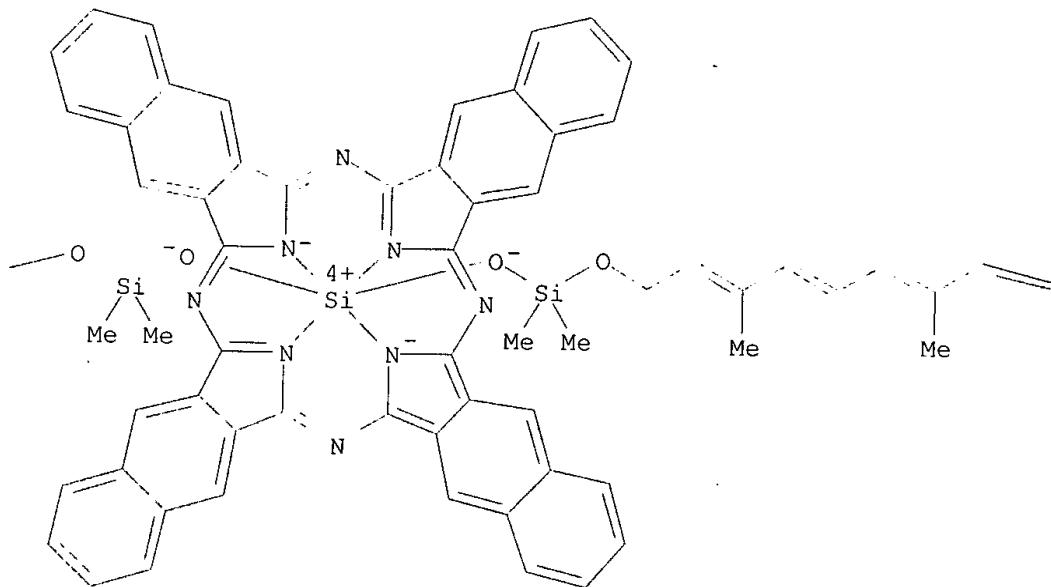
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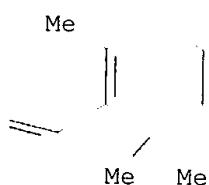
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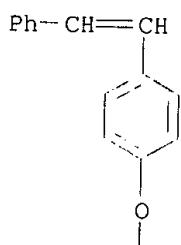


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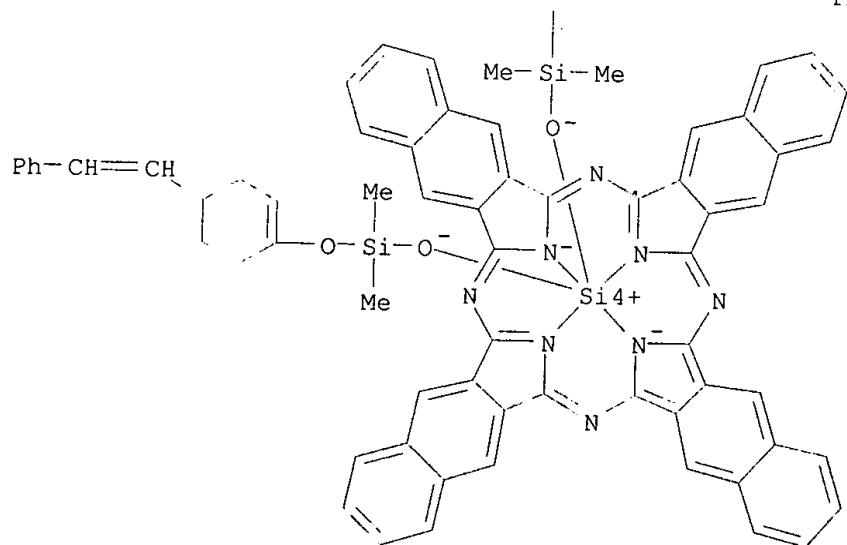


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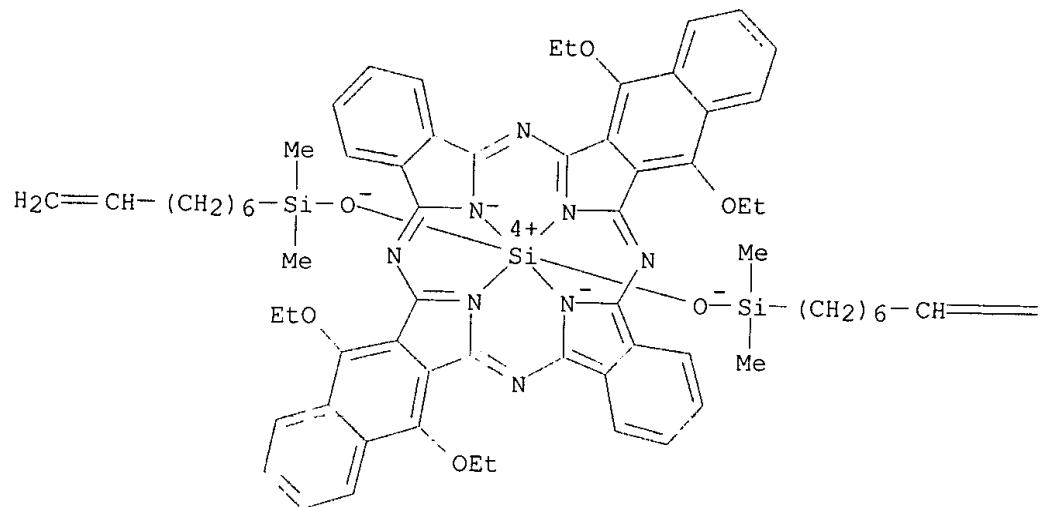


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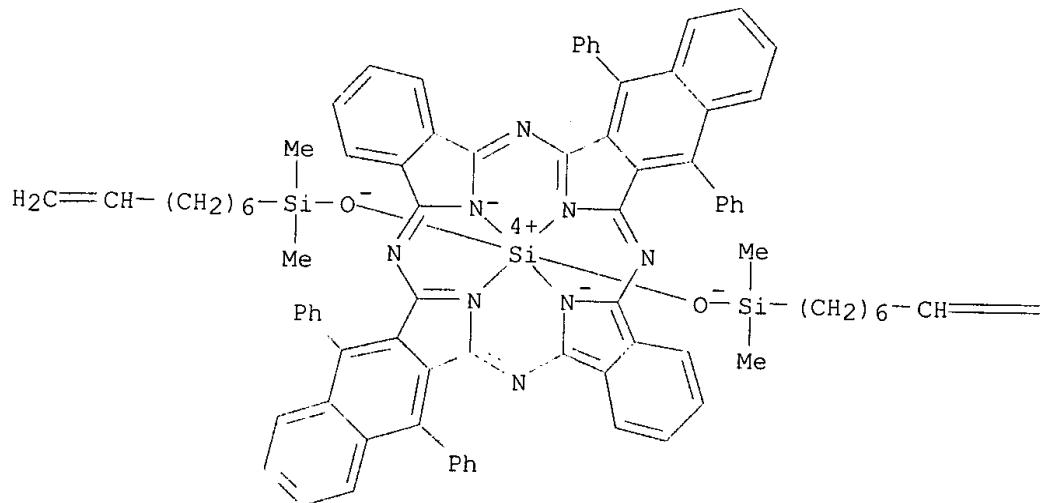


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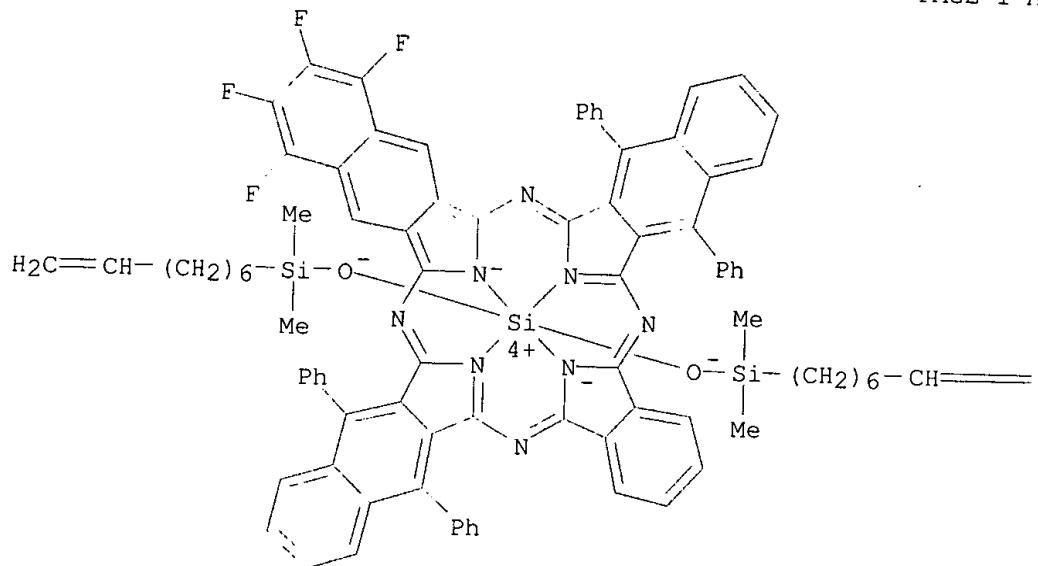
PAGE 1-B

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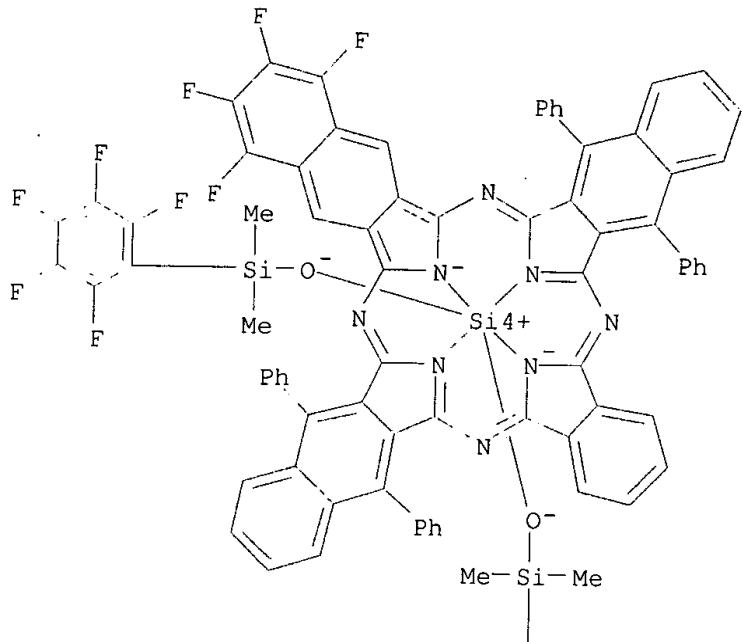


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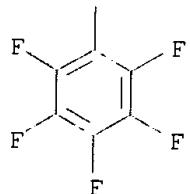
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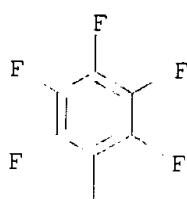


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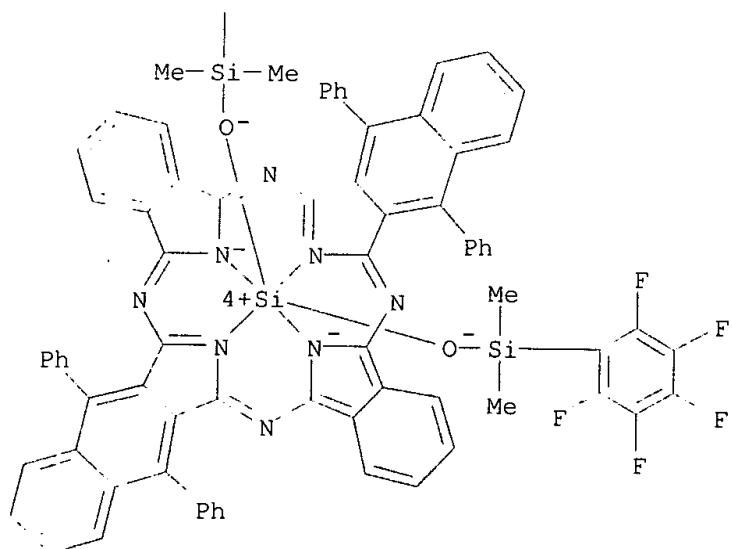


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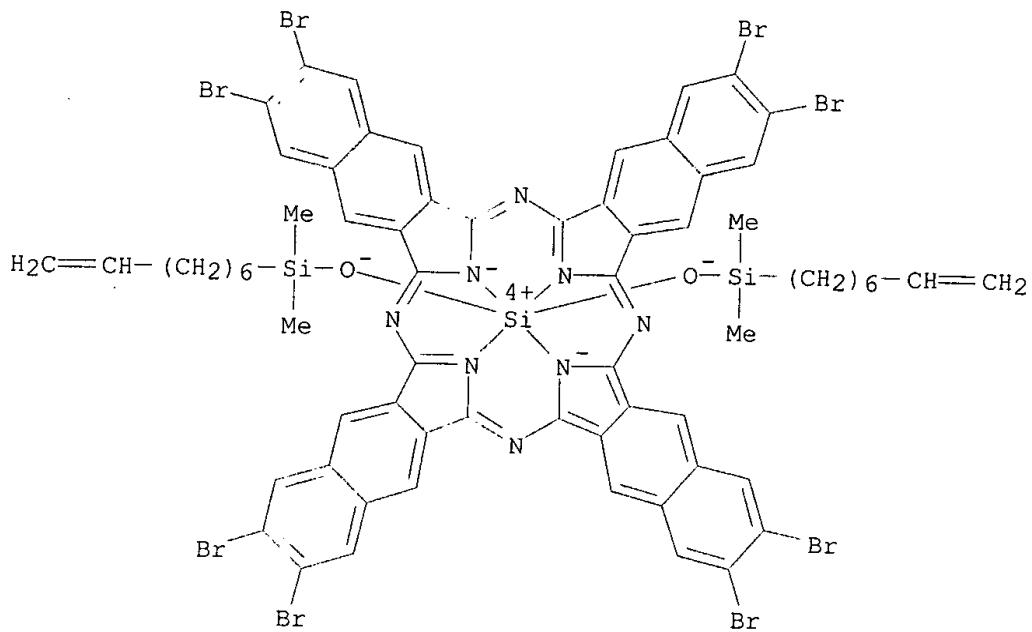


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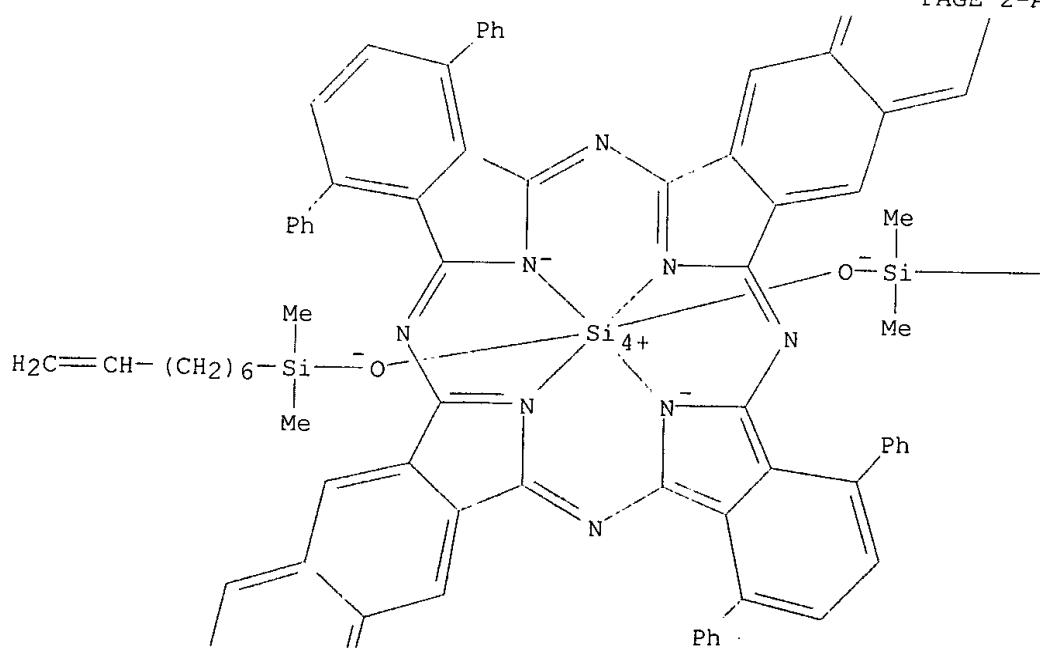
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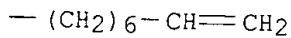
CN Silicon, (dimethyl-7-octenylsilanolato)[1,4,17,20-tetraphenyl-33H,35H-dibenzo[b,l]dinaphtho[2,3-g,2',3'-q]porphyrazinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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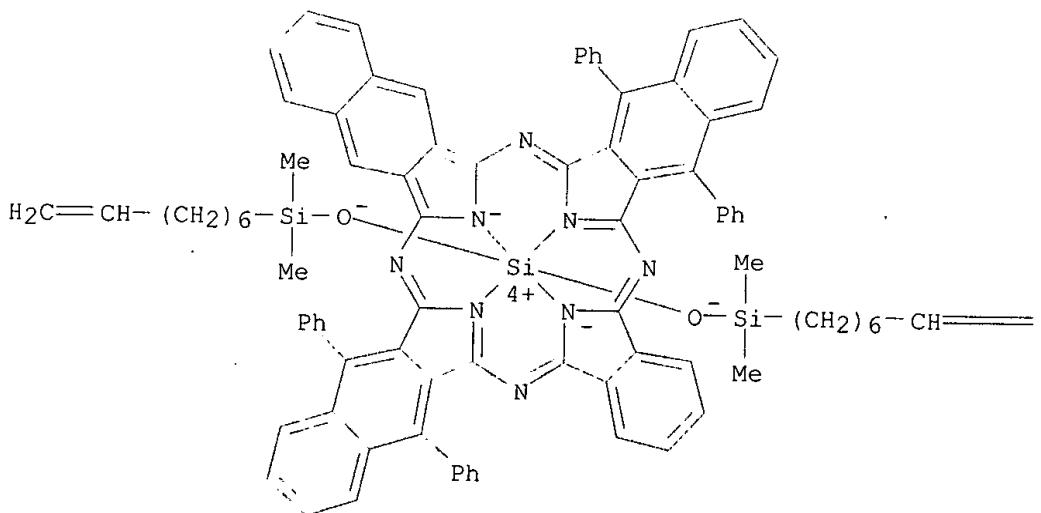


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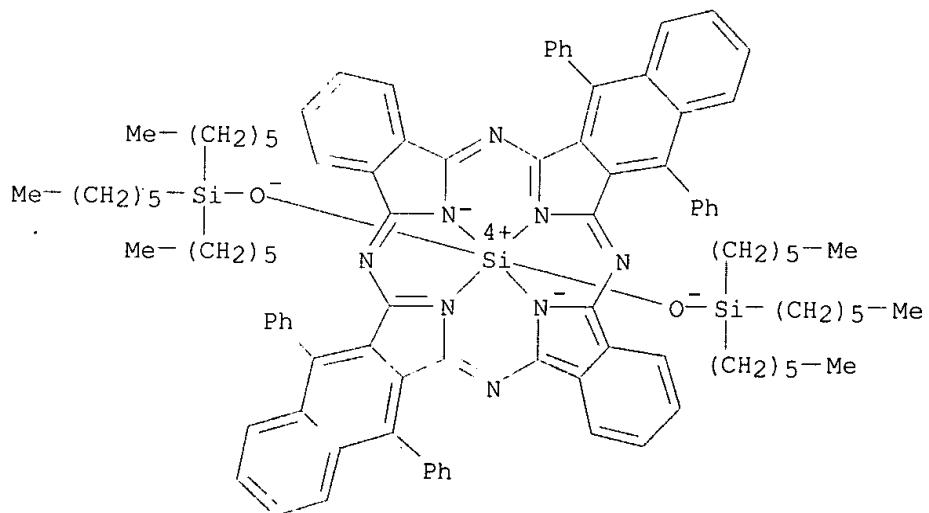


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benzo[b]trinaphtho[2,3-g:2',3'-l:2'',3''-q]porphyrzinato(2-)–  
.kappa.N35,.kappa.N36,.kappa.N37,.kappa.N38]–, (OC-6-12)– (9CI) (CA INDEX  
NAME)



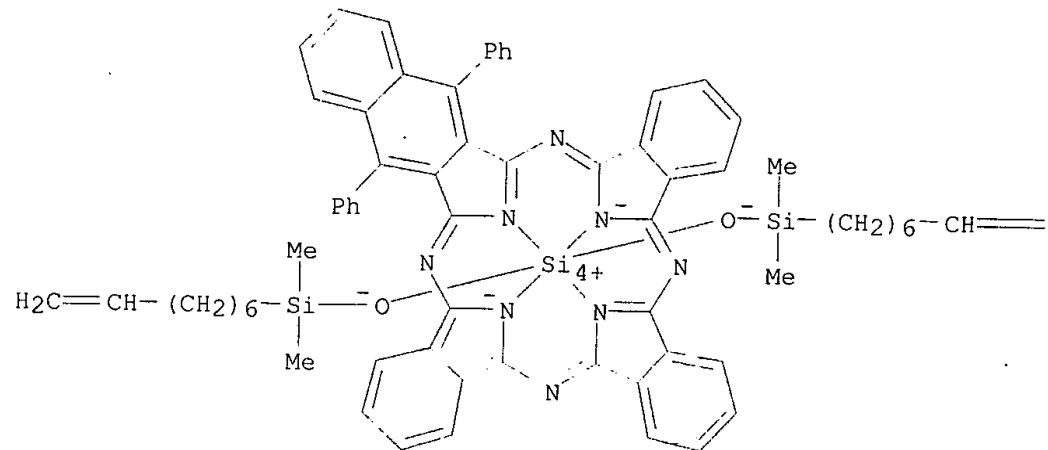
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RN 183872-77-7 HCAPLUS  
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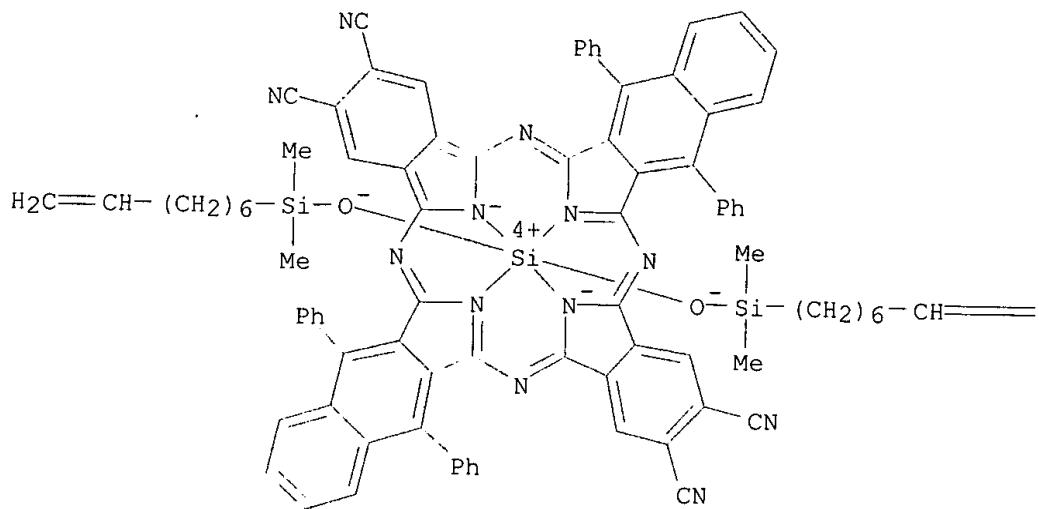


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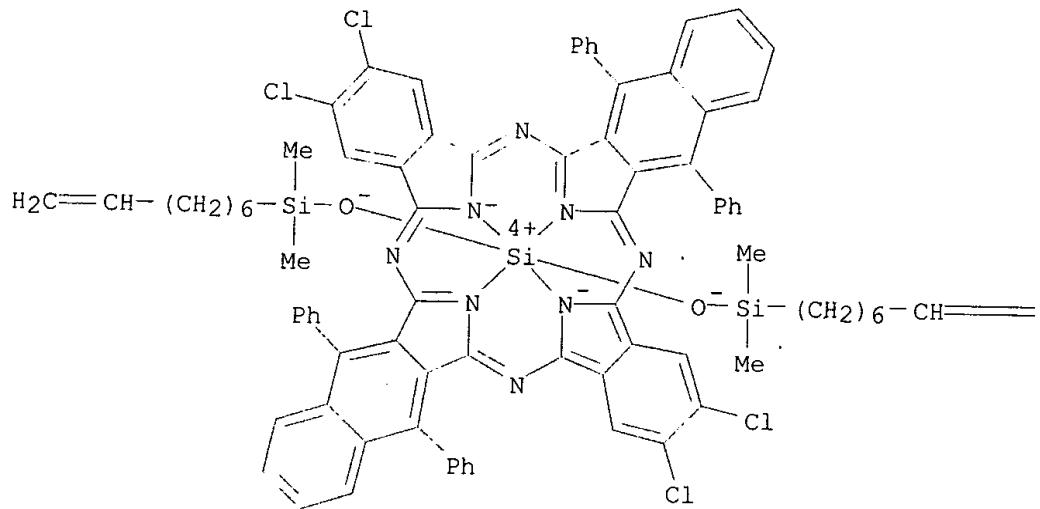


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8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,l]dinaphtho[2,3-g:2',3'-  
q]porphyrazinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-,  
(OC-6-12)- (9CI) (CA INDEX NAME)

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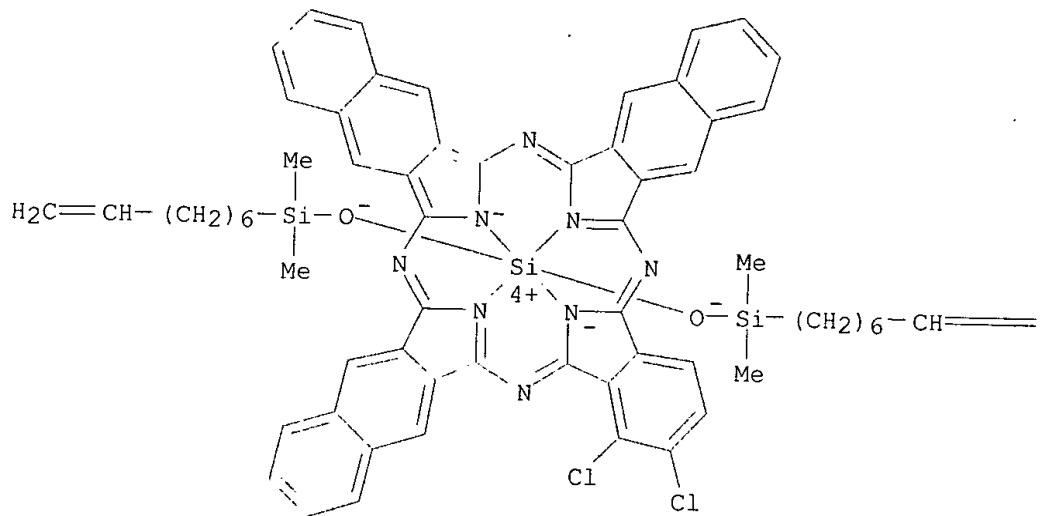
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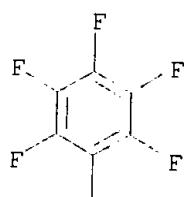


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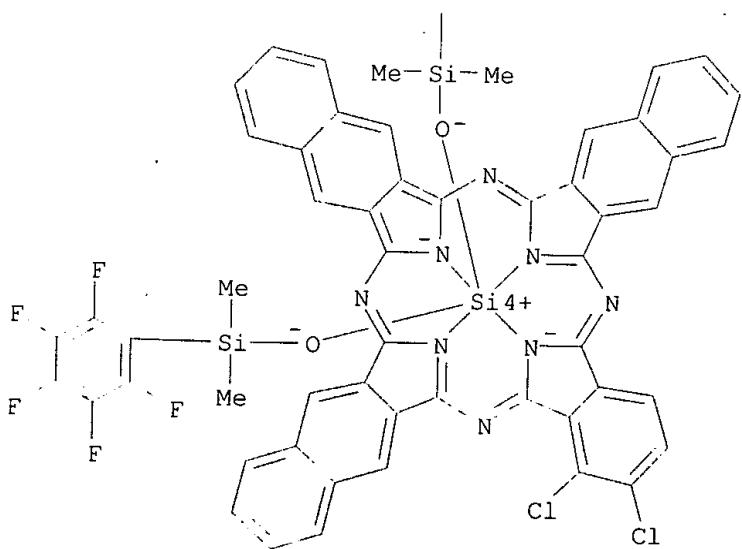
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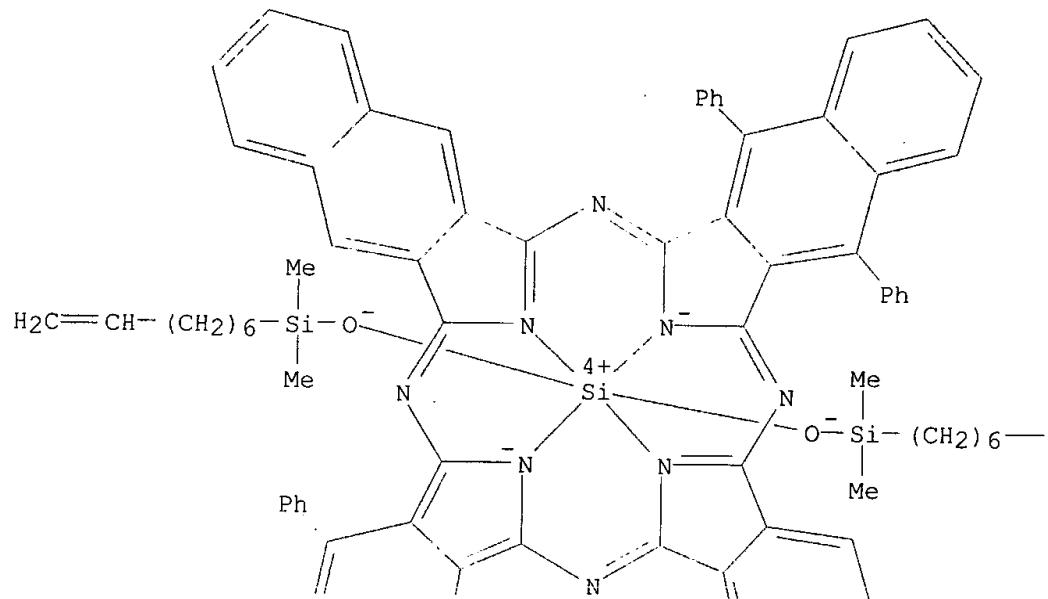


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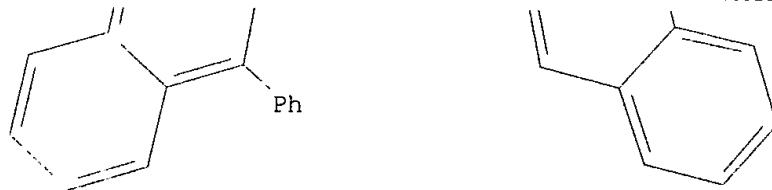
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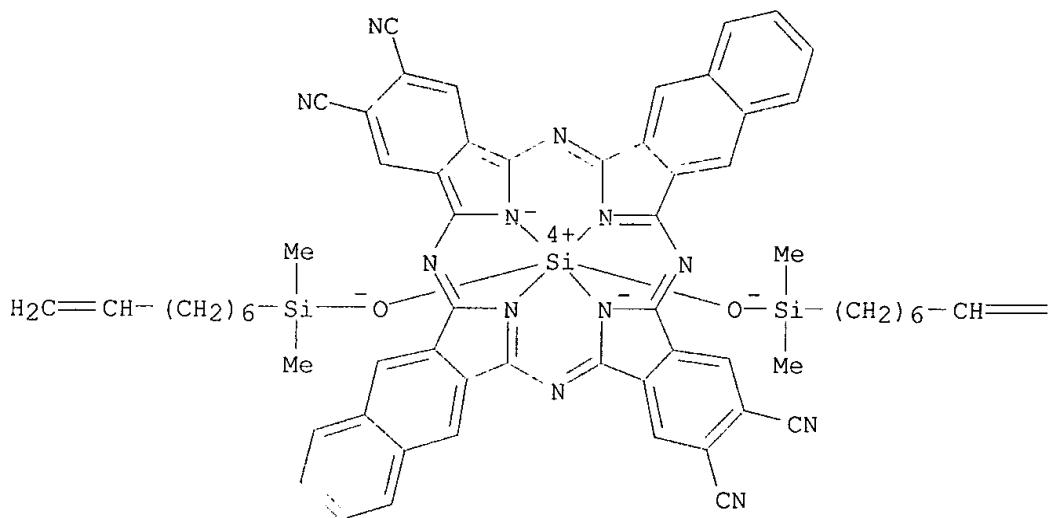
PAGE 2-A



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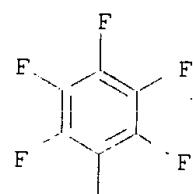
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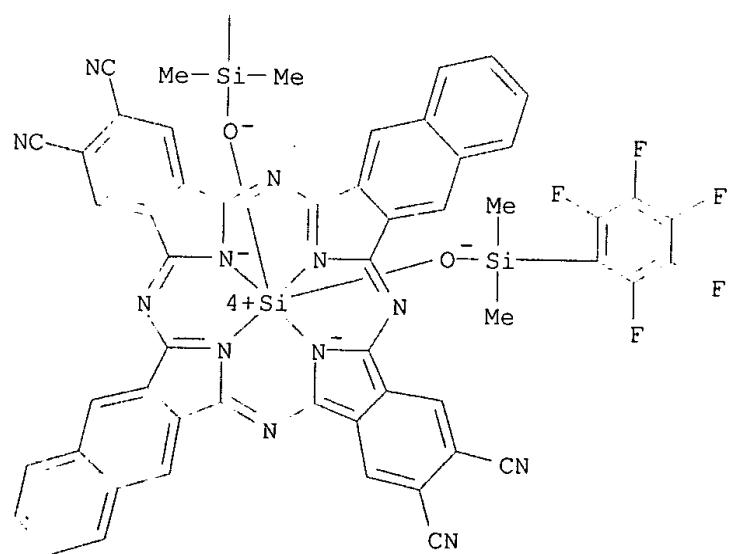
Epperson 09/776, 599

2,3,18,19-tetracarbonitrilato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]bis[dimethyl(pentafluorophenyl)silanolate-.kappa.O]-, (OC-6-12)- (9CI)  
(CA INDEX NAME)

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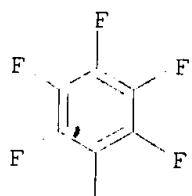
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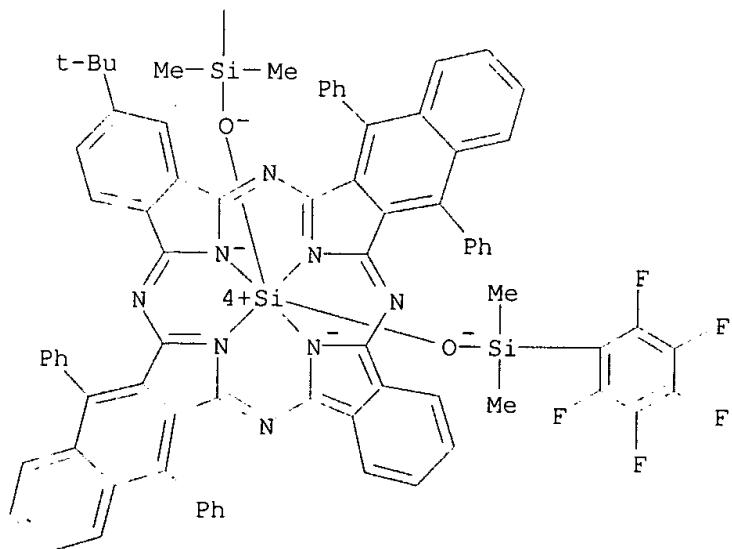
Epperson 09/776,599

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D1-Bu-t

RN 342373-96-0 HCAPLUS  
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\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

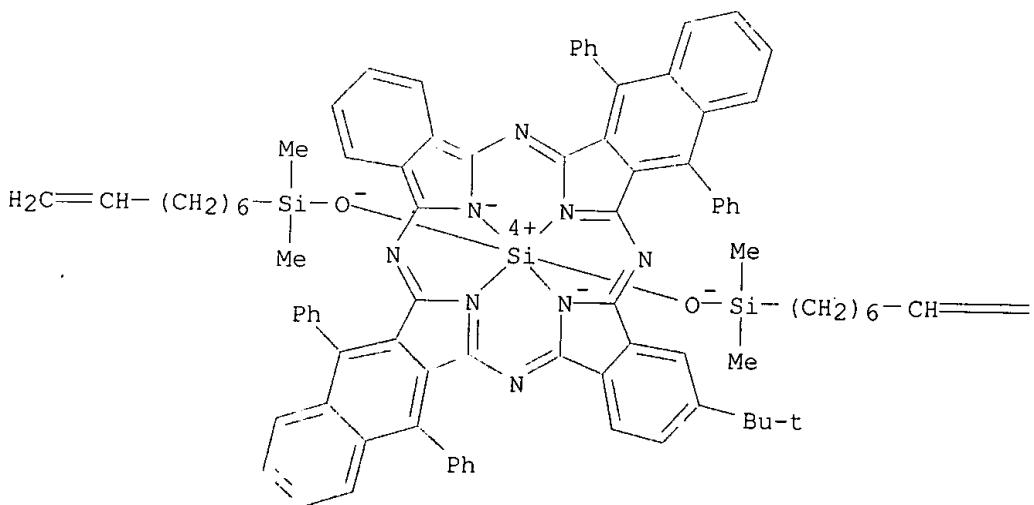
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RL: ARG (Analytical reagent use); IMF (Industrial manufacture); ANST (Analytical study); PREP (Preparation); USES (Uses)  
 (intermediate; fluorescence energy transfer and intramol. energy transfer in particles using novel compds., manuf. and use in assay of biomol.)

RN 183973-58-2 HCAPLUS

CN Silicon, [2,18(or 2,19)-bis(1,1-dimethylethyl)-8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,l]dinaphtho[2,3-g:2',3'-q]porphyrizinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]bis(dimethyl-7-octenylsilanolato)- (9CI) (CA INDEX NAME)

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D1-Bu-t

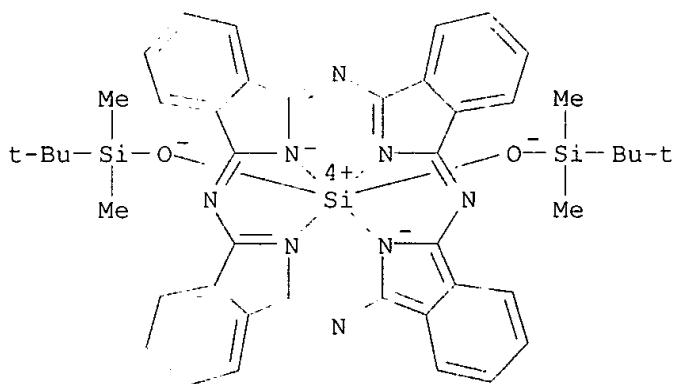
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 183872-72-2P 183872-98-2P 183872-99-3P  
 183873-03-2P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (intermediate; fluorescence energy transfer and intramol. energy transfer in particles using novel compds., manuf. and use in assay of biomol.)

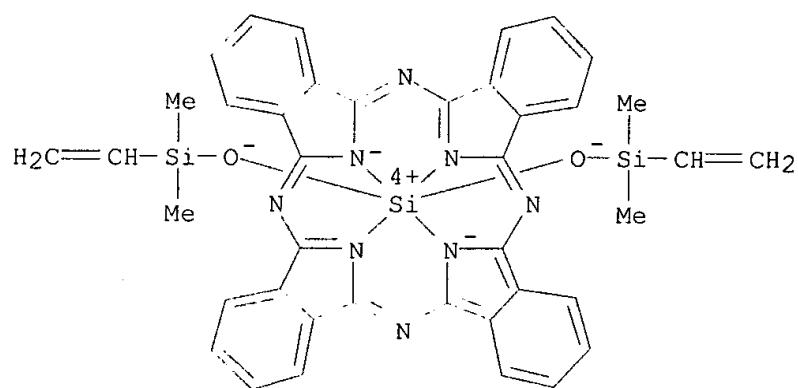
RN 67881-06-5 HCPLUS

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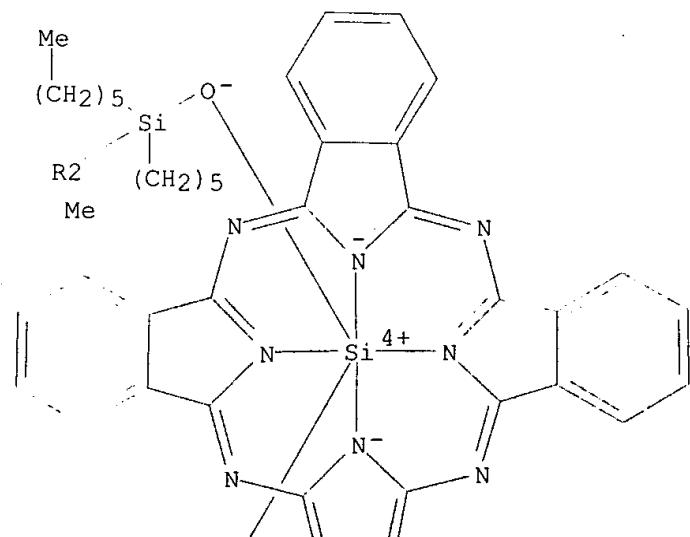
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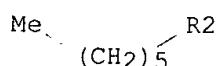
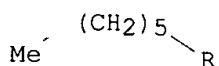
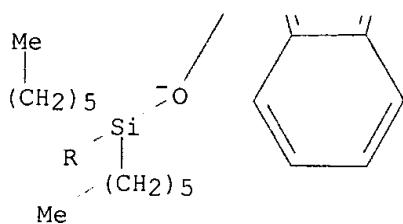
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RN 92396-89-9 HCAPLUS  
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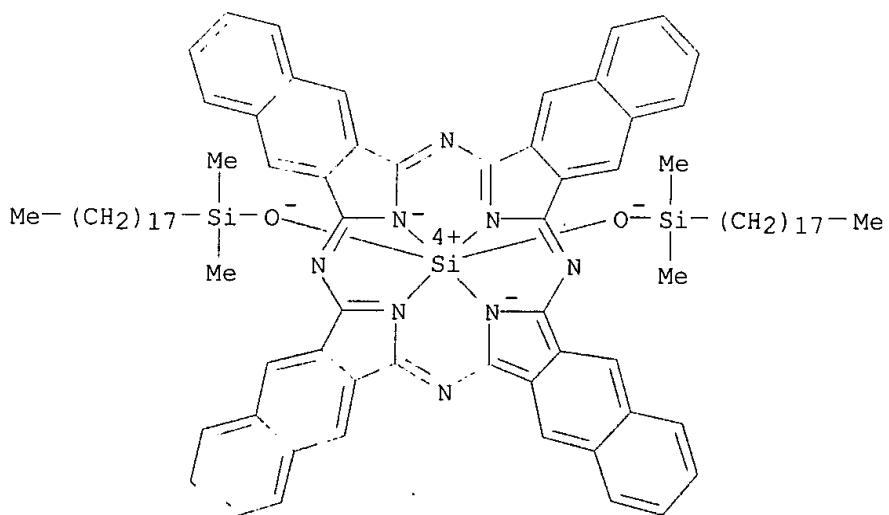
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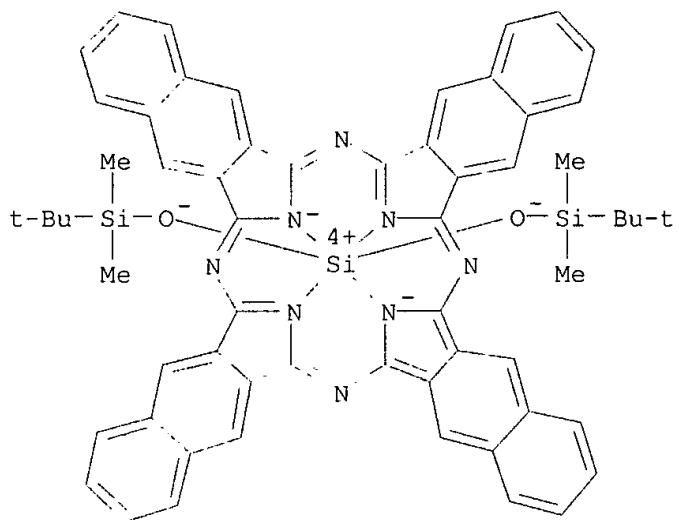
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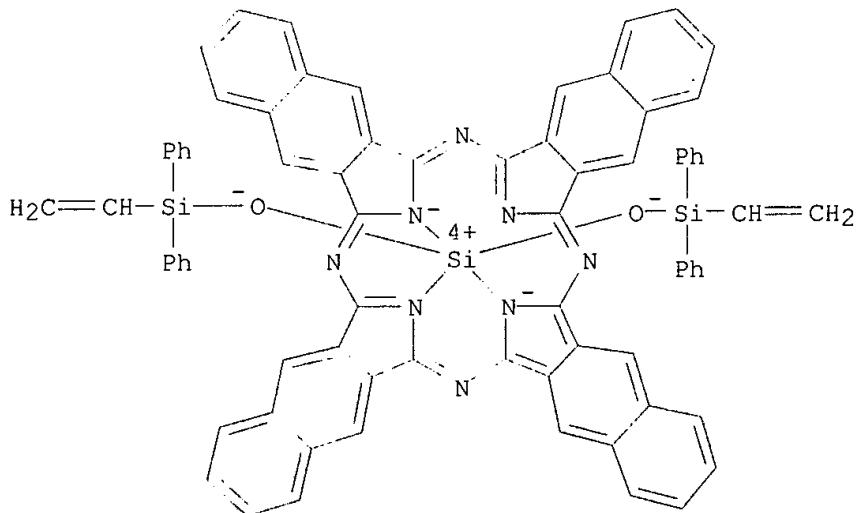


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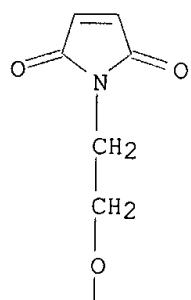


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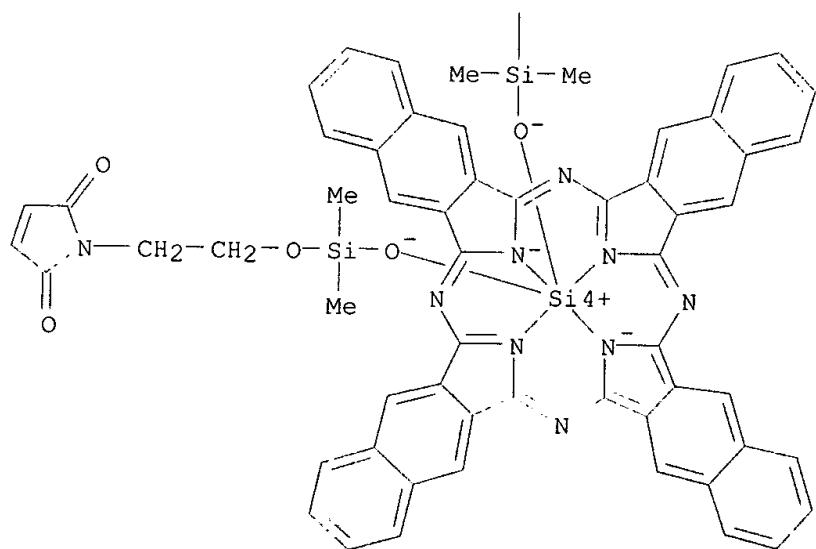


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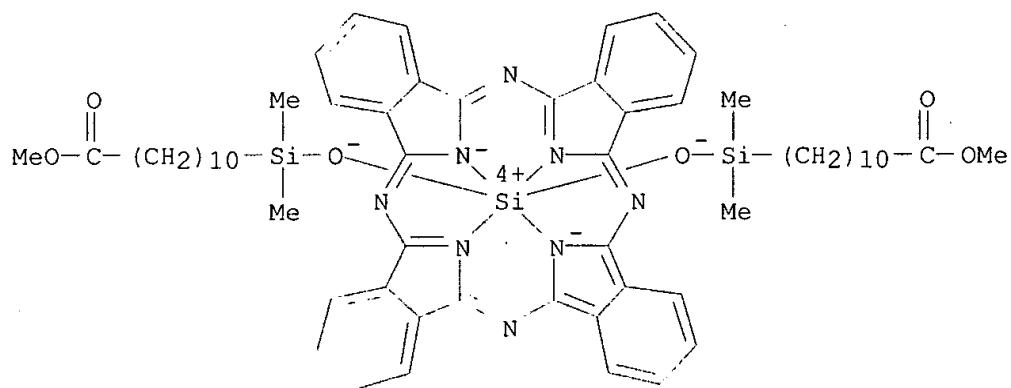
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PAGE 2-A

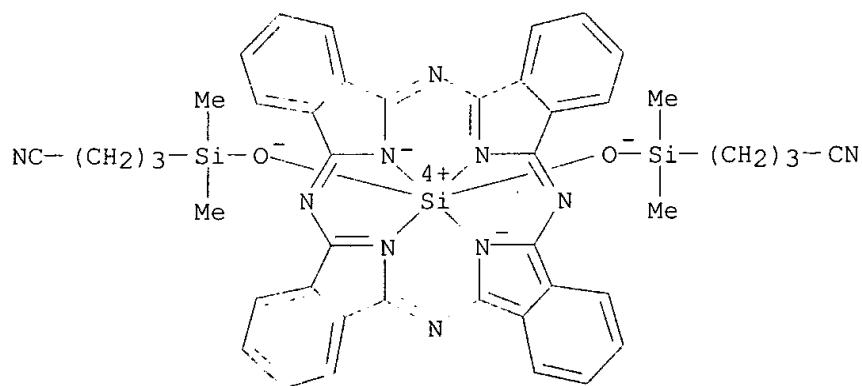


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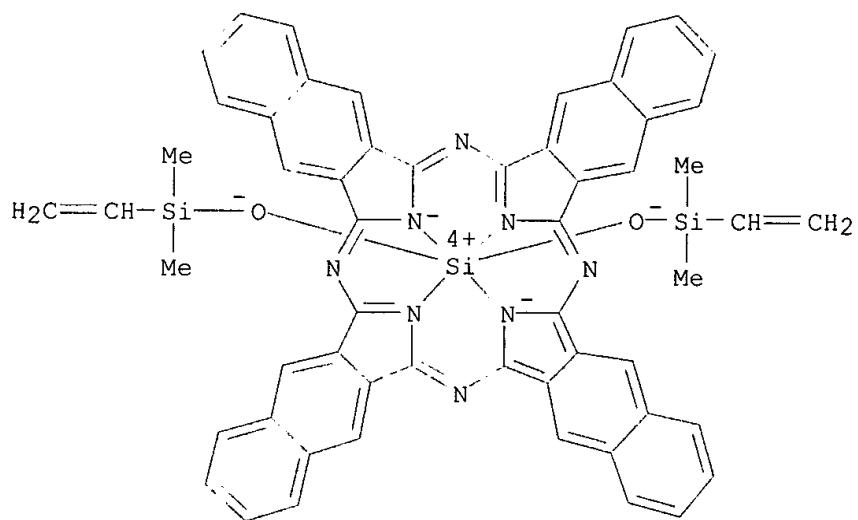
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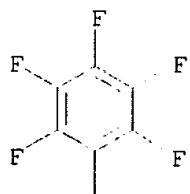
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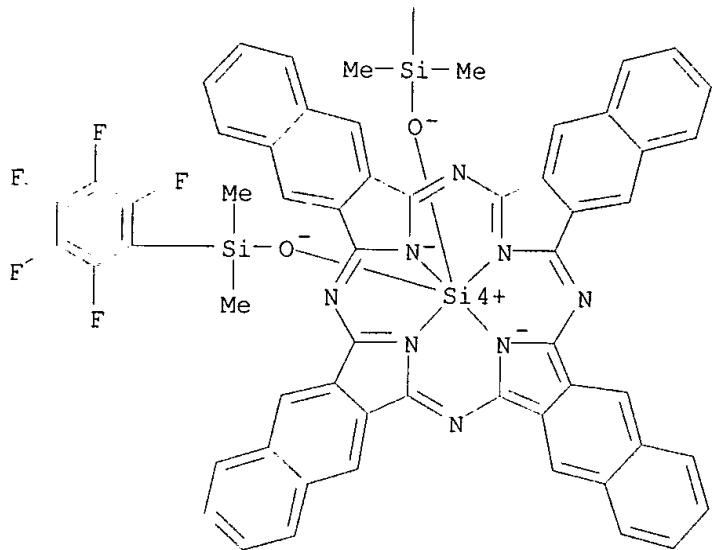
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RN 163969-11-7 HCAPLUS  
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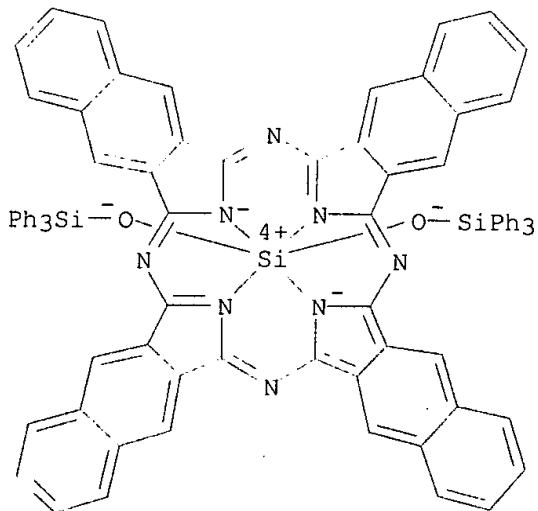
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RN 163969-15-1 HCAPLUS

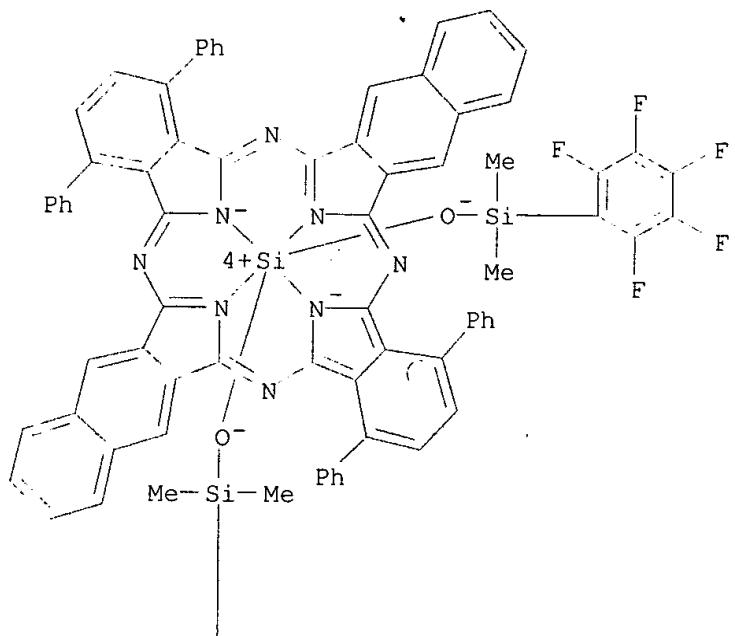
CN Silicon, [37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]bis(trimethylsilyl) silanolato-, (OC-6-12)- (9CI) (CA INDEX NAME)



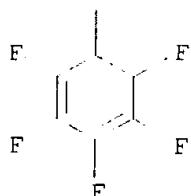
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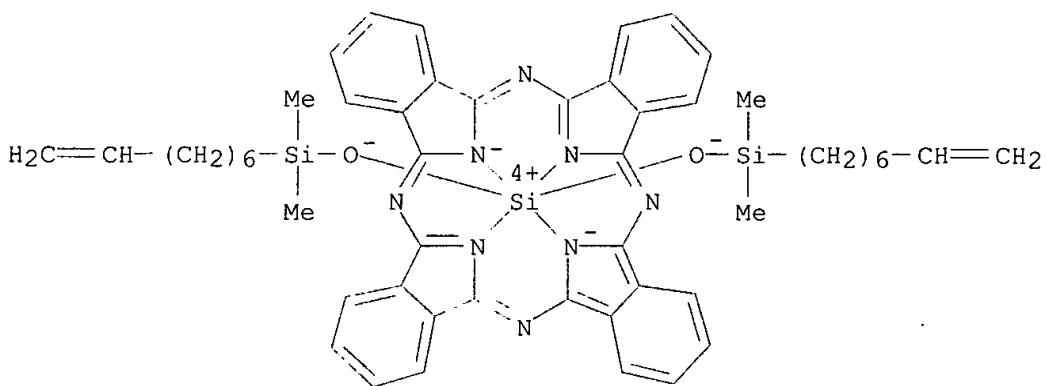


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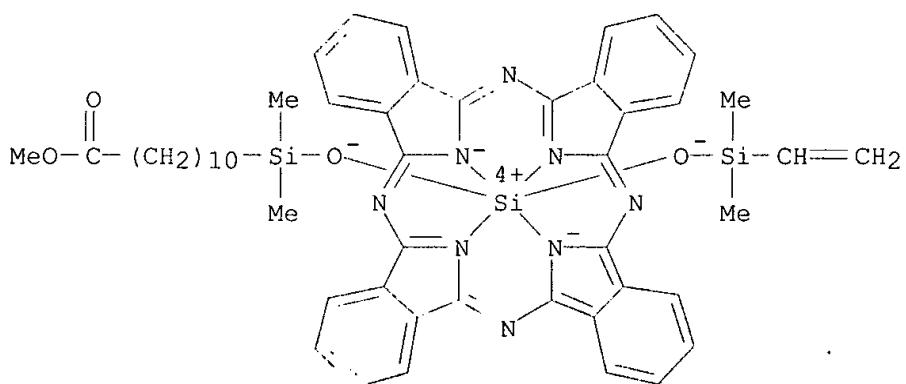
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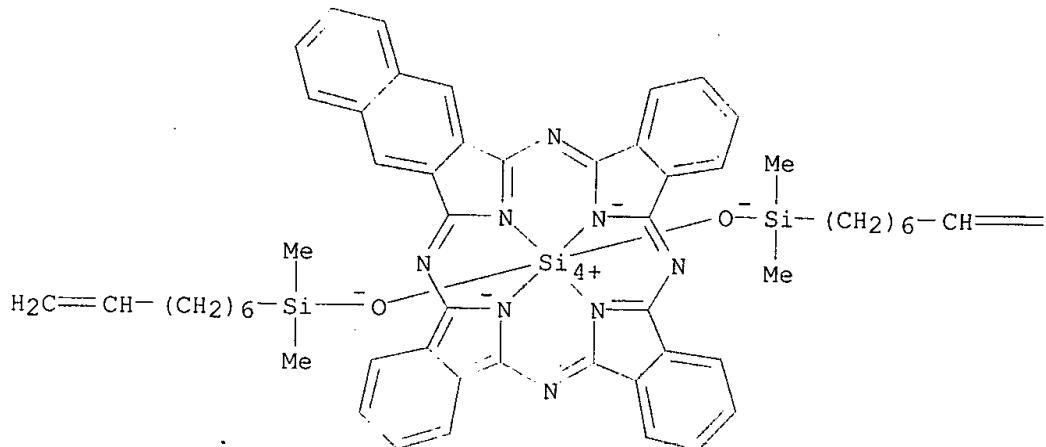
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RN 183873-03-2 HCAPLUS

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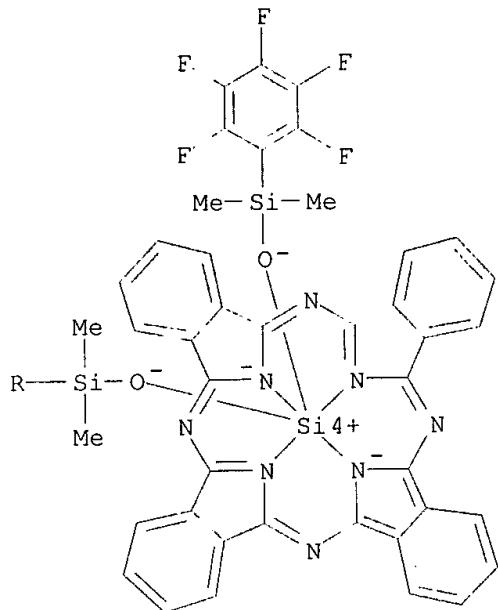
IT 163969-09-3P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
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in particles using novel compds., manuf. and use in assay of biomol.)

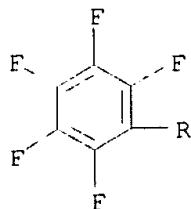
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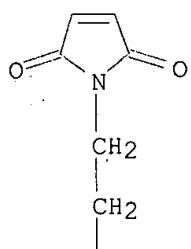
24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:391992 HCAPLUS  
DOCUMENT NUMBER: 135:2542  
TITLE: Fluorescence energy transfer in particles  
INVENTOR(S): Buechler, Kenneth F.; Noar, Joseph  
Barry; Tadesse, Lema  
PATENT ASSIGNEE(S): Biosite Diagnostics, Inc., USA  
SOURCE: U.S., 30 pp., Cont.-in-part of U.S. Ser. No. 138,708,  
abandoned.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 7  
PATENT INFORMATION:

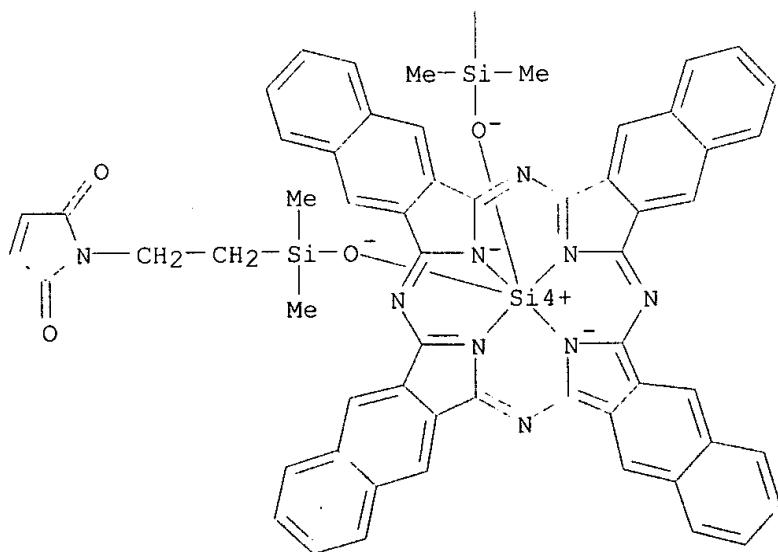
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US 6238931	B1	20010529	US 1994-274534	19940712
WO 9508772	A1	19950330	WO 1994-US10826	19940923
W: AU, CA, JP RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9480112	A1	19950410	AU 1994-80112	19940923
EP 670041	A1	19950906	EP 1994-931287	19940923
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 08503994	T2	19960430	JP 1994-509970	19940923
US 5763189	A	19980609	US 1994-311098	19940923
US 6251687	B1	20010626	US 1995-409298	19950323
AT 212721	E	20020215	AT 1994-931287	19950330
US 5824799	A	19981020	US 1996-620597	19960322
US 2002061602	A1	20020523	US 2001-776599	20010201
PRIORITY APPLN. INFO.:			US 1993-126367	B2 19930924
			US 1993-138708	B2 19931018
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			US 1994-311098	A2 19940923
			WO 1994-US10826	W 19940923
			US 1995-409298	A2 19950323
			US 1995-409825	A2 19950323
			US 1996-620597	A1 19960322
			US 1998-66255	A2 19980424
AB	Particles and methods for the detection or visualization of analytes using fluorescence energy transfer are disclosed. Particles comprising an energy donor as a first component and a fluorescent dye as a second component positioned in said particles at an energy exchanging distance from one another, wherein the two components have a Stokes shift of greater than or equal to 50 nm, said particle having bound on its surface, a protein, polypeptide, nucleic acid, nucleotide or protein contg. ligand analog are disclosed and claimed. A fluorescence immunoassay for human chorionic gonadotropin (hCG) uses a conjugate of anti-hCG monoclonal antibody and latex particles contg. 1,1'-dihexyl-3,3',3'-tetramethylindodicarbocyanine iodide and silicon 2,3-naphthalocyanine bis(dimethylvinylsilyl oxide) (prepn. given).			
IT	163968-86-3 163969-09-3			
	RL: ARG (Analytical reagent use); PRP (Properties); ANST (Analytical study); USES (Uses)			
	(fluorescence energy transfer in particles)			
RN	163968-86-3 HCPLUS			
CN	Silicon, bis[1-[2-[(hydroxy-.kappa.O)dimethylsilyl]ethyl]-1H-pyrrole-2,5-dionato] [37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)			

Epperson 09/776, 599

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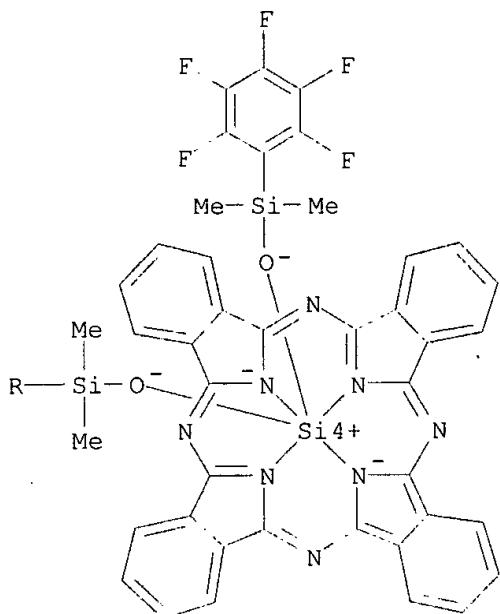
PAGE 2-A



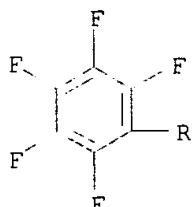
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(OC-6-12)- (9CI) (CA INDEX NAME)

Search completed by David Schreiber 308-4292

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PAGE 2-A



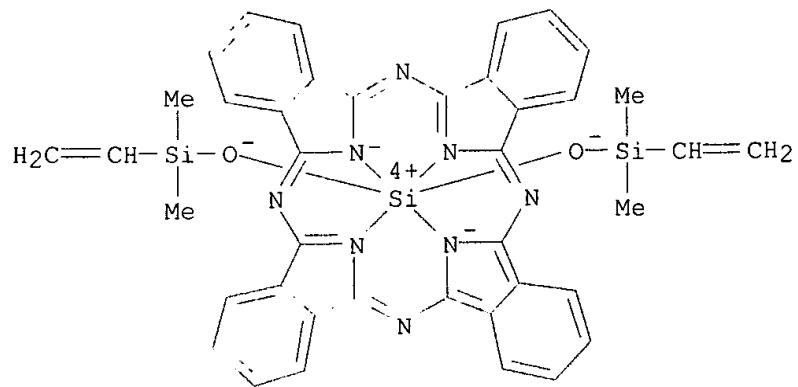
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163969-10-6P

RL: ARG (Analytical reagent use); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (fluorescence energy transfer in particles)

RN 68812-20-4 HCAPLUS

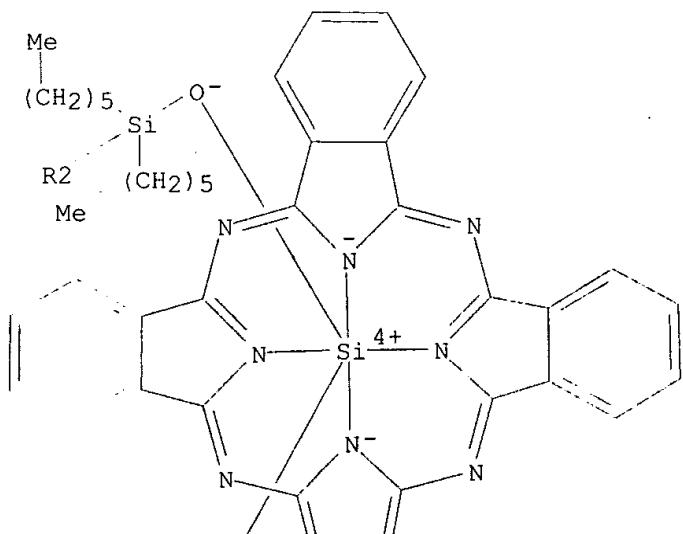
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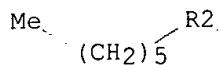
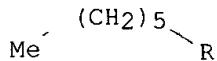
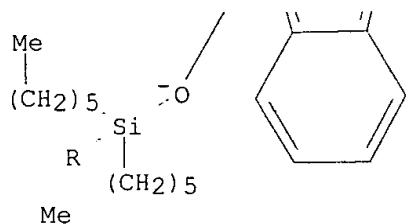
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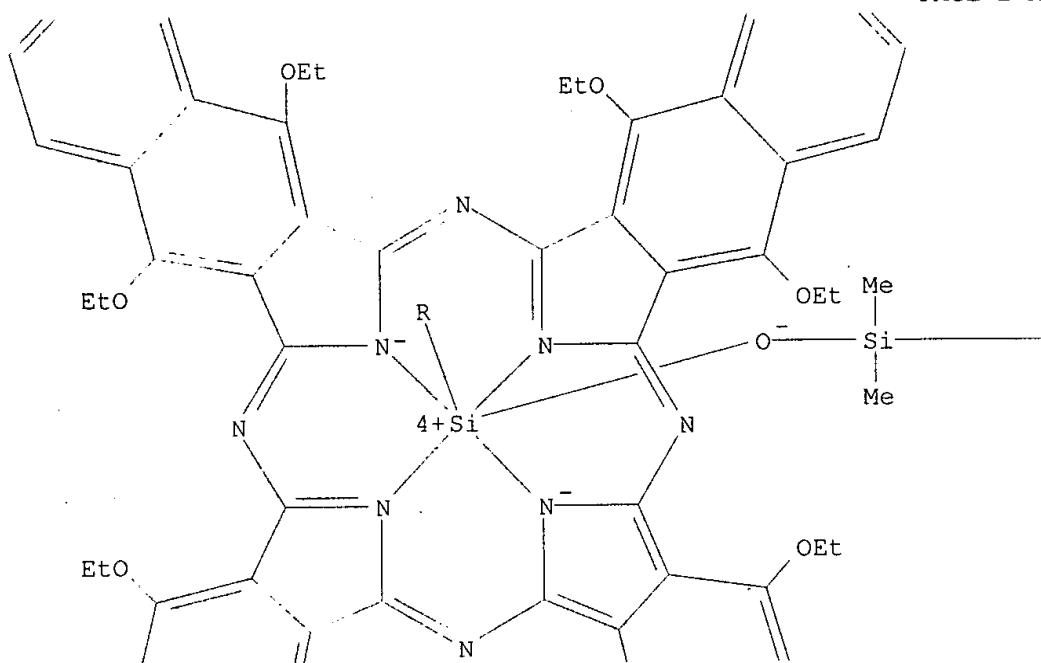


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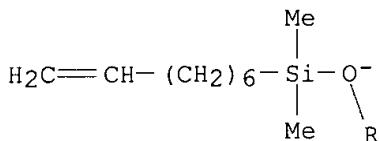
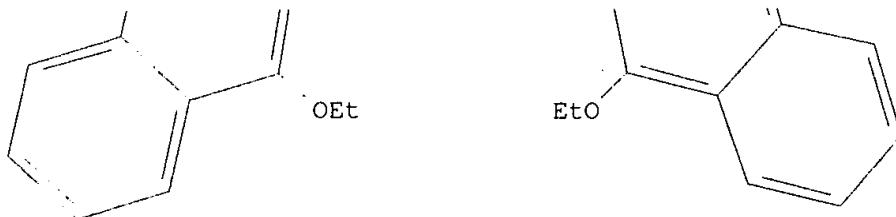
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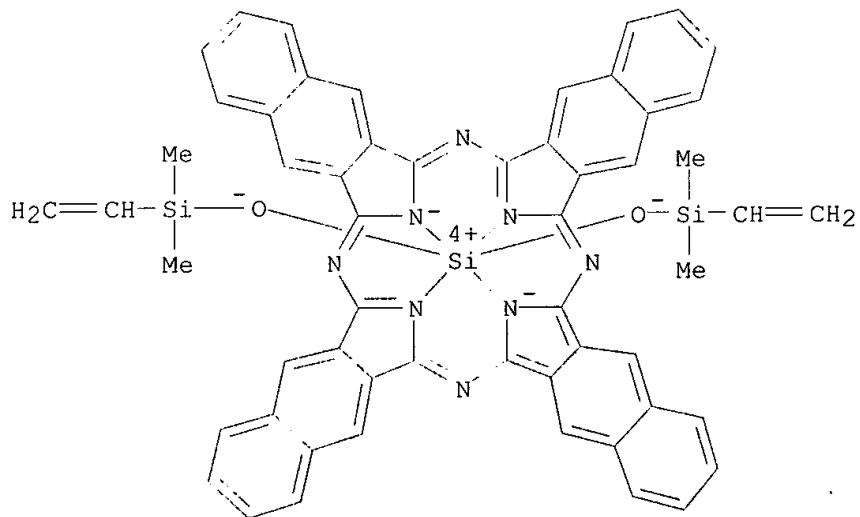
PAGE 2-B

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RN 163969-10-6 HCPLUS

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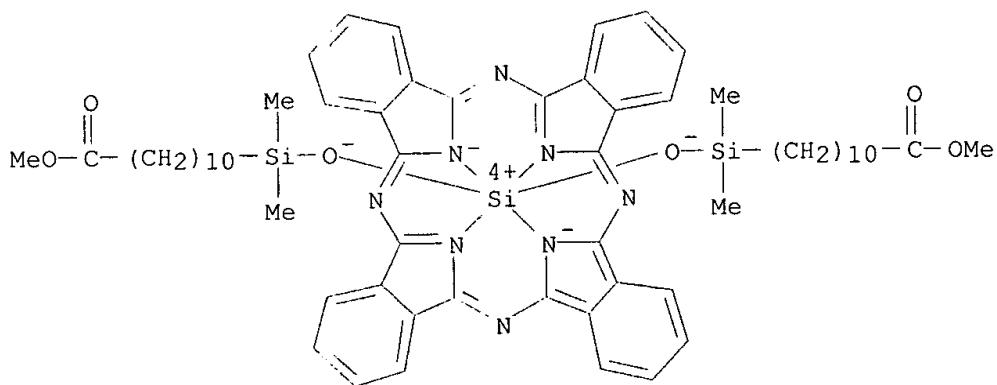


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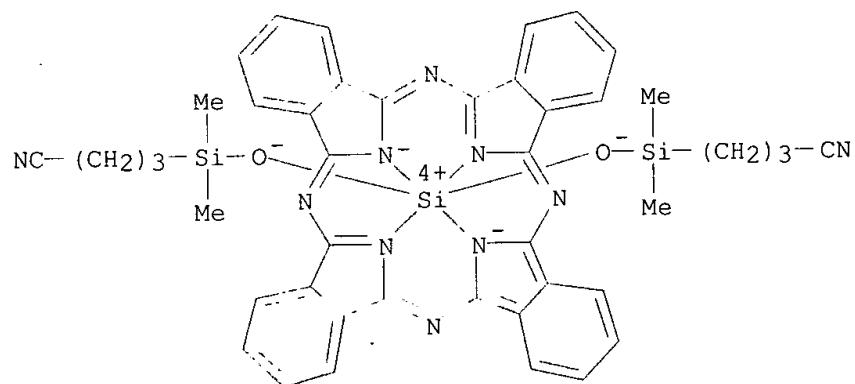
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)  
(fluorescence energy transfer in particles)

RN 163969-07-1 HCPLUS

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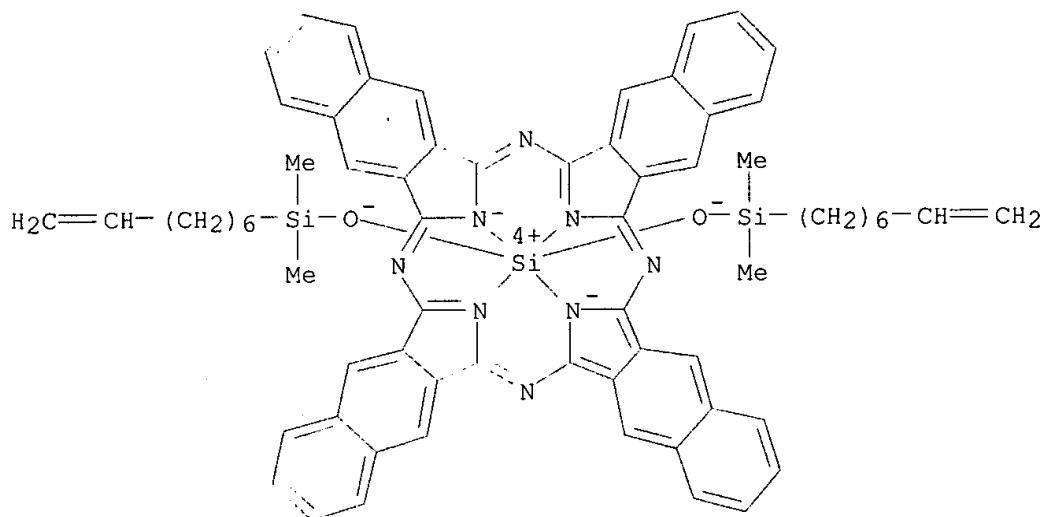


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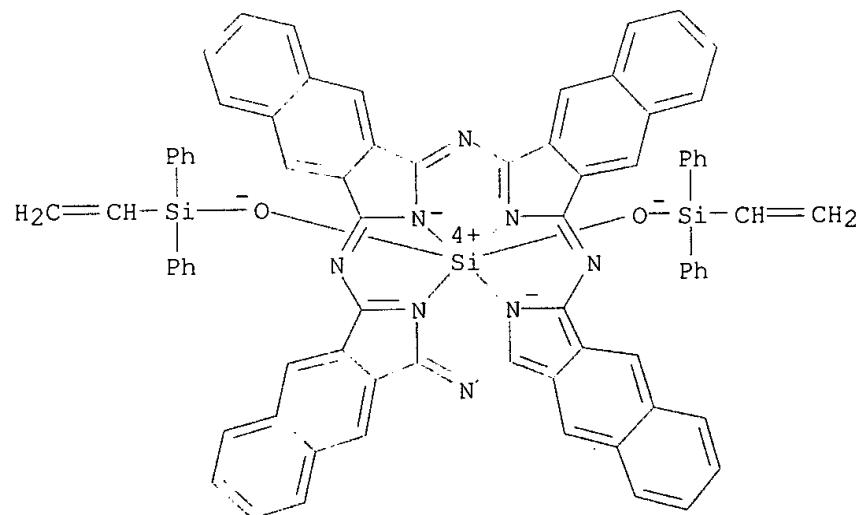
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\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
IT 163968-88-5P 163968-91-0P 163968-92-1P  
163968-94-3P 163968-95-4P 163969-11-7P  
163969-15-1P 183872-48-2P 342373-96-0DP,  
reaction with fluorescein  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(fluorescence energy transfer in particles)  
RN 163968-88-5 HCAPLUS  
CN Silicon, bis(dimethyl-7-octenylsilanolate)[37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrazinato(2-).kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)



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CN Silicon, bis(ethenyldiphenylsilanolate) [37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrzinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

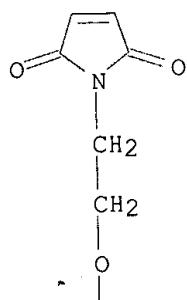


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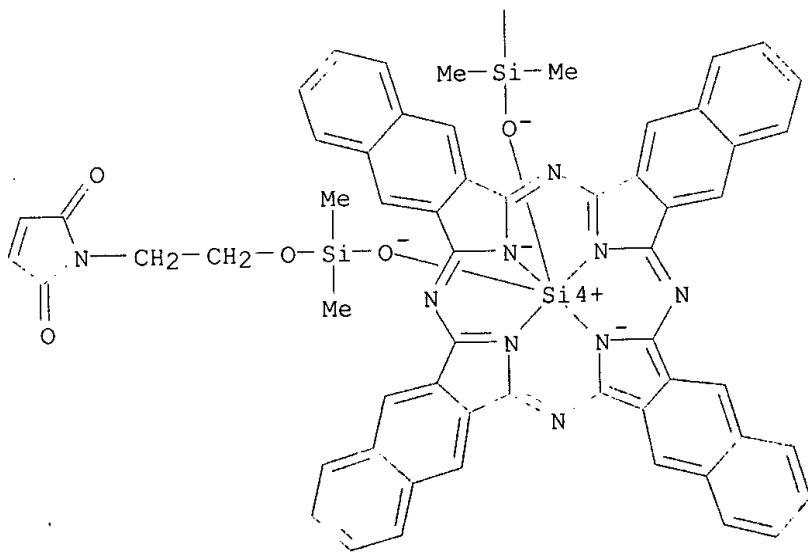
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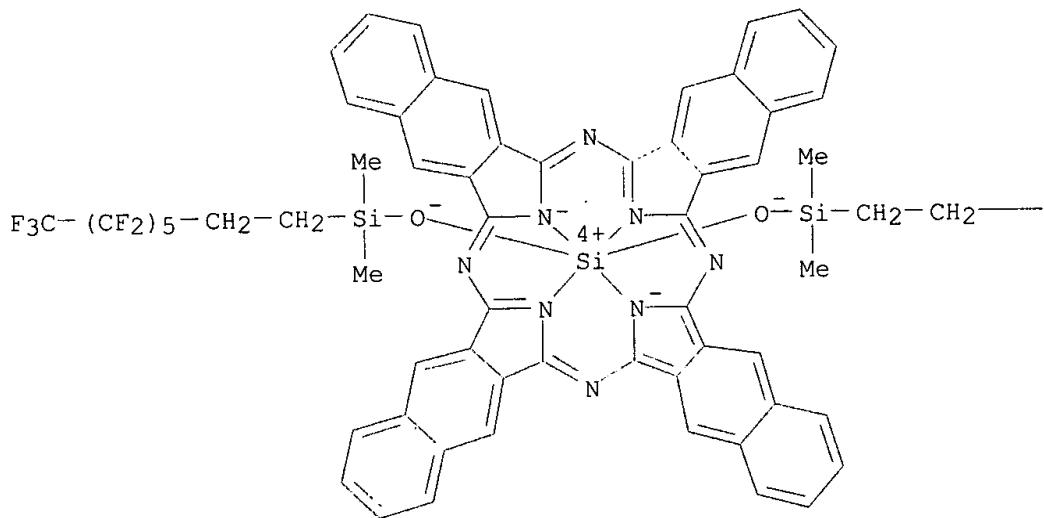
PAGE 2-A



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Search completed by David Schreiber 308-4292

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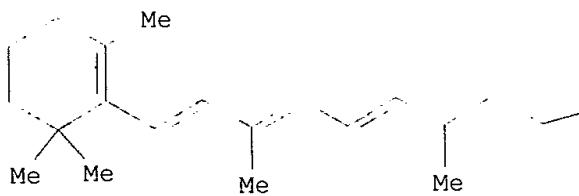
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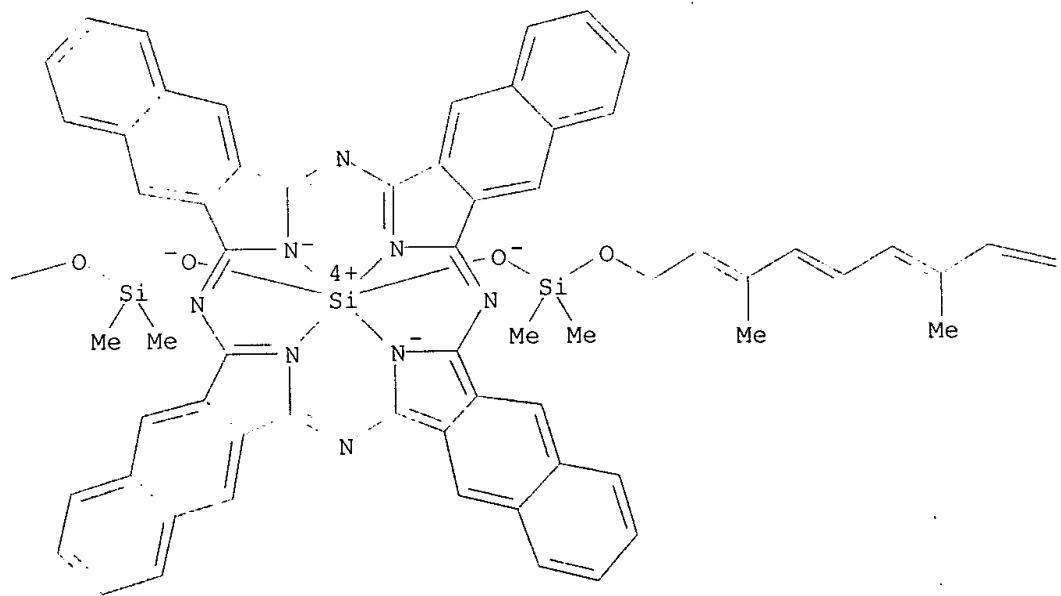
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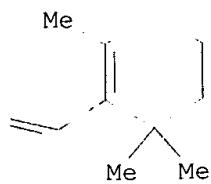
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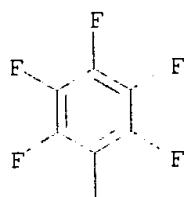


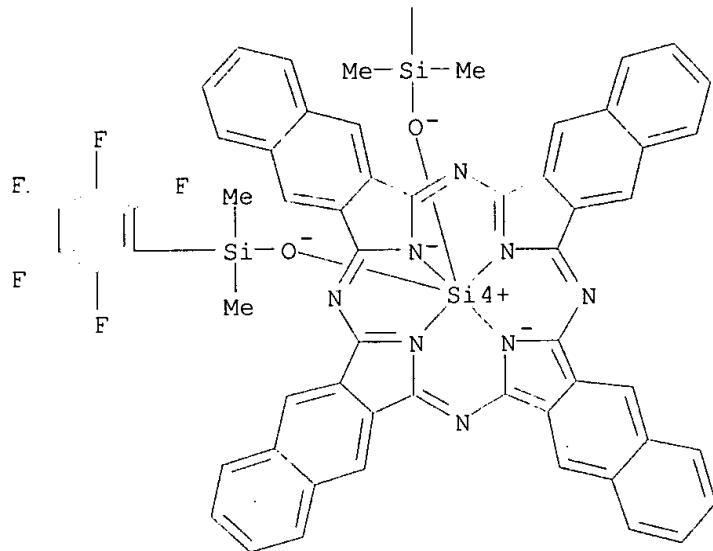
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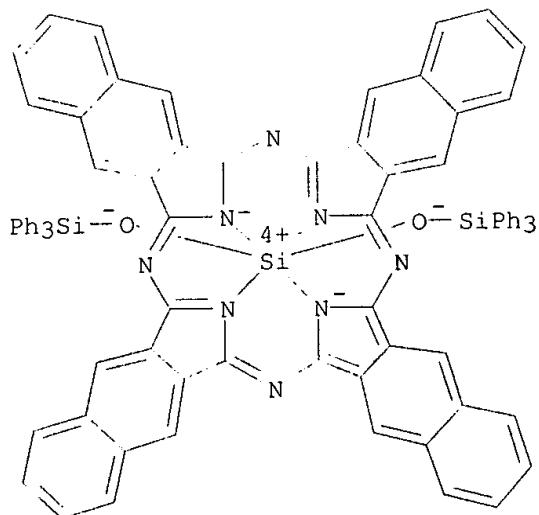
PAGE 1-A





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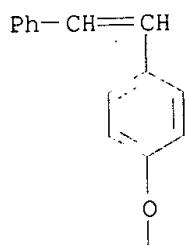


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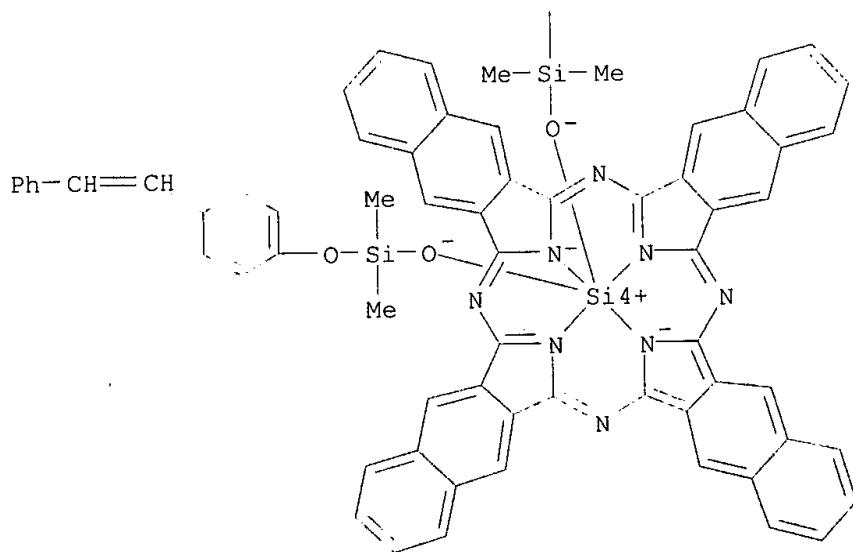
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RN 342373-96-0 HCPLUS  
CN Silicon, bis[1-[ (hydroxy-.kappa.O)dimethylsilyl]-1H-pyrrole-2,5-dionato] [29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (OC-6-12)- (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
 REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1998:684455 HCAPLUS  
 DOCUMENT NUMBER: 129:317583  
 TITLE: Hybrid phthalocyanine derivatives and their uses in  
 immunoassays and nucleic acid assays  
 INVENTOR(S): Buechler, Kenneth F.; Noar, Joseph  
 B.; Tadesse, Lema  
 PATENT ASSIGNEE(S): Biosite Diagnostics Incorporated, USA  
 SOURCE: U.S., 57 pp., Cont.-in-part of U.S. Ser. No. 274,534.  
 CODEN: USXXAM  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 7  
 PATENT INFORMATION:

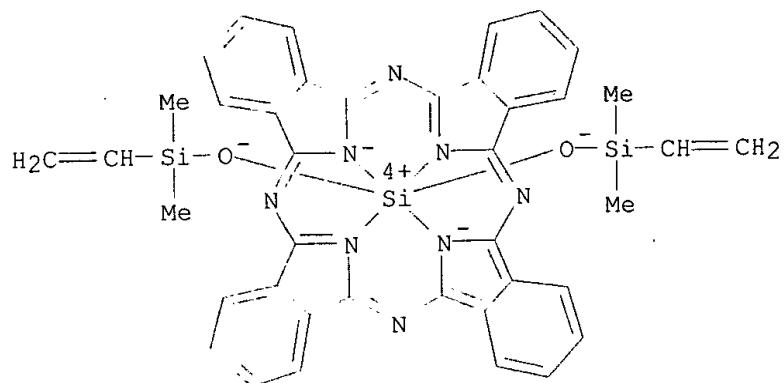
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US 5824799	A	19981020	US 1996-620597	19960322
US 6238931	B1	20010529	US 1994-274534	19940712
US 5763189	A	19980609	US 1994-311098	19940923
US 2002061602	A1	20020523	US 2001-776599	20010201
PRIORITY APPLN. INFO.:				
			US 1993-126367	B2 19930924
			US 1993-138708	B2 19931018
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			US 1994-311098	A2 19940923
			US 1995-409825	A2 19950323
			WO 1994-US10826	W 19940923
			US 1995-409298	A2 19950323
			US 1996-620597	A1 19960322
			US 1998-66255	A2 19980424

AB Water sol. hybrid phthalocyanine derivs. having (1) at least one donor subunit with a desired excitation peak and (2) at least one acceptor subunit with a desired emission peak, wherein the derivs. are capable of intramol. energy transfer from the donor subunit to the acceptor subunit, are synthesized. Such derivs. also may contain an electron transfer subunit. Axial ligands may be covalently bound to the metals contained in the water sol. hybrid phthalocyanine derivs. Ligands, ligand analogs, polypeptides, proteins, and nucleic acids can be linked to the axial ligands of the dyes to form dye conjugates useful in immunoassays and nucleic acid assays.

IT 68812-20-4P 92396-89-9P 163968-88-5P  
 163968-89-6P 163968-92-1P 163968-94-3P  
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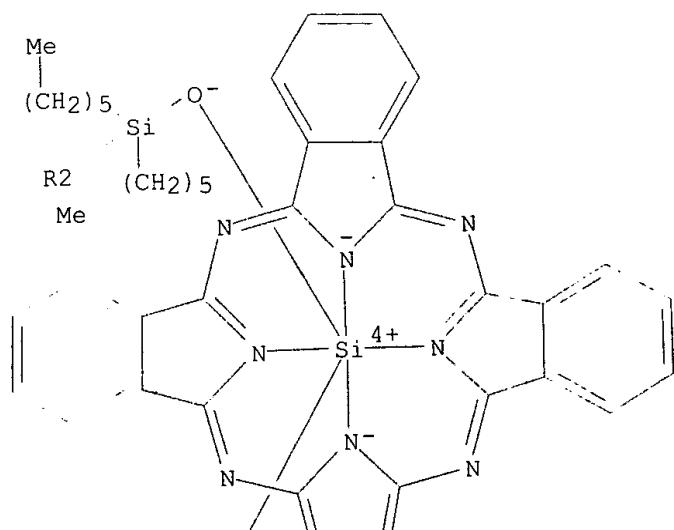
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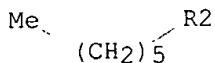
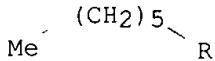
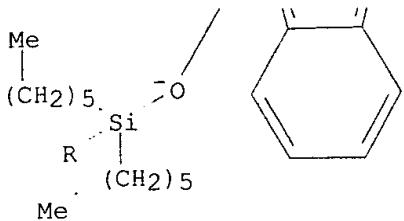
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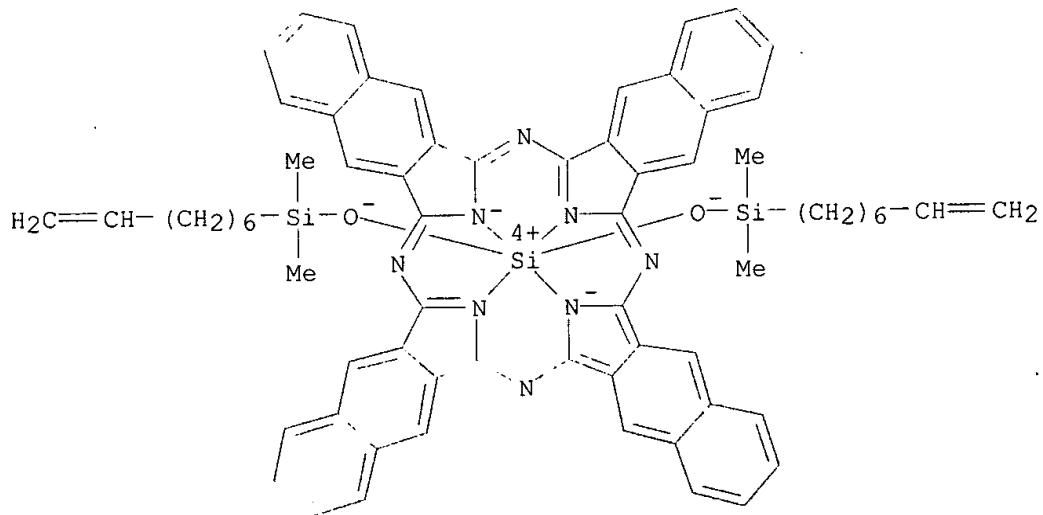
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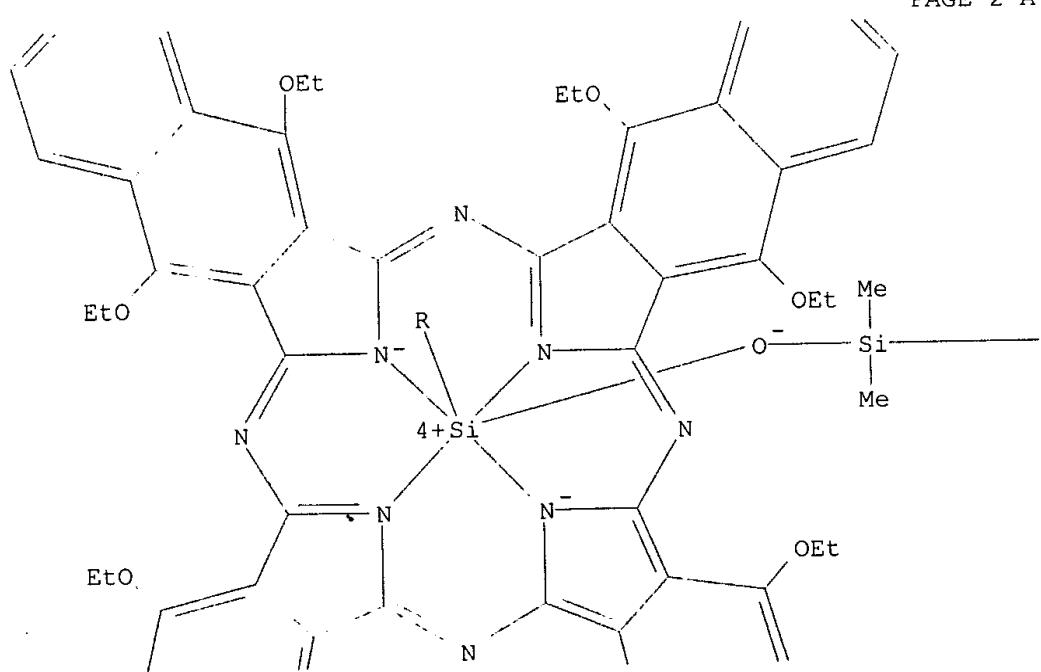
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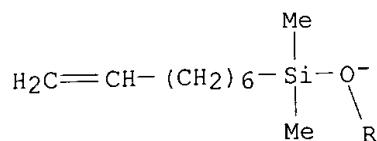
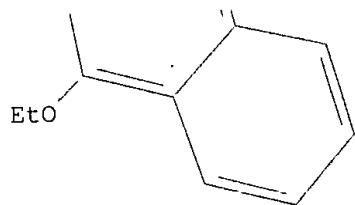
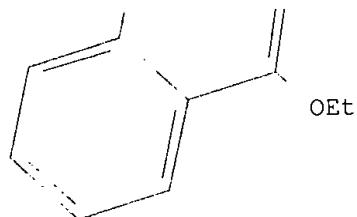
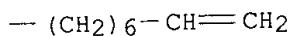
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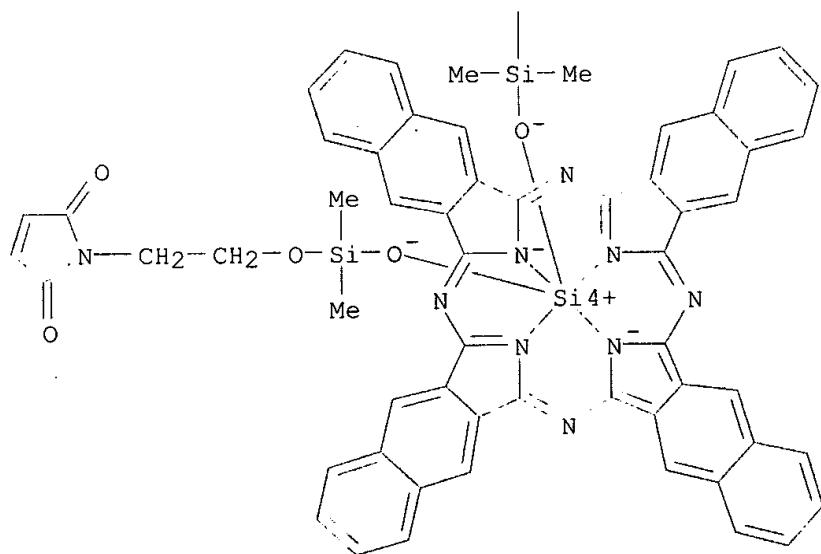
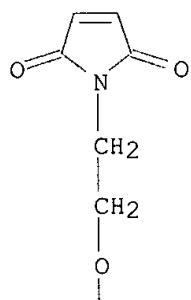


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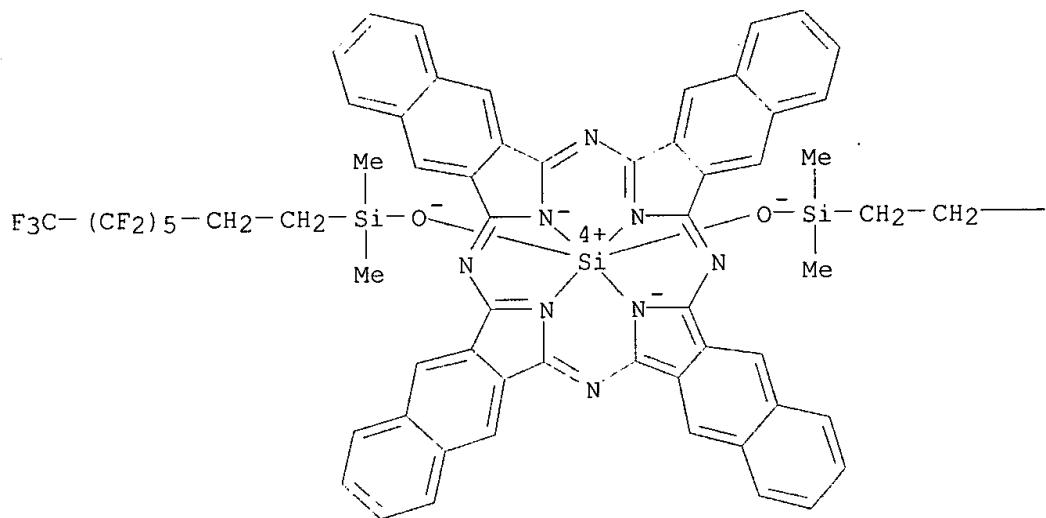


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q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-,  
(OC-6-12)- (9CI) (CA INDEX NAME)



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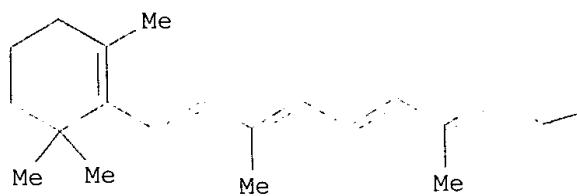
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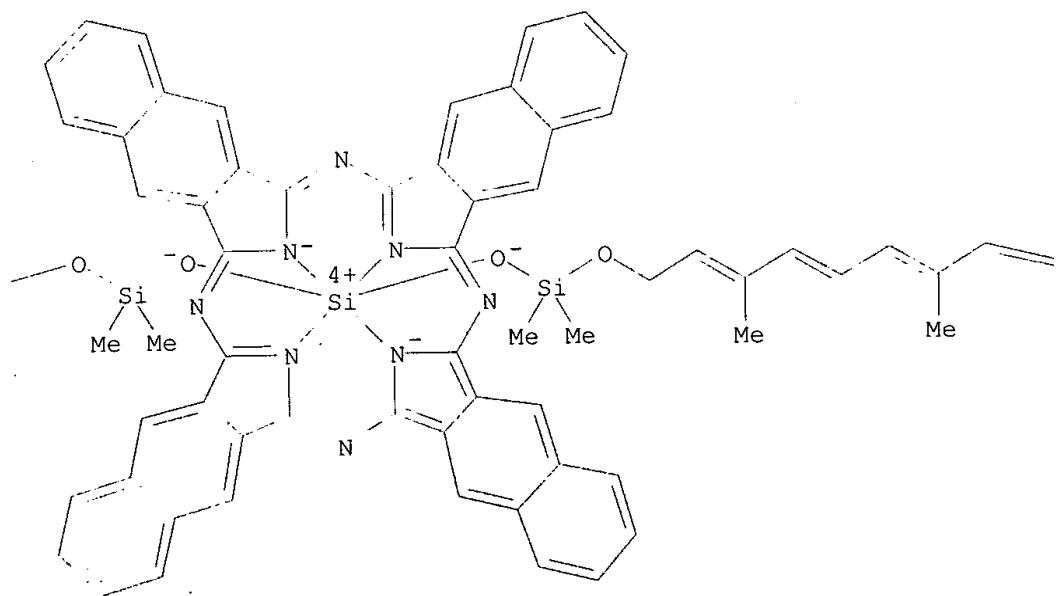
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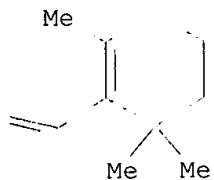
Epperson 09/776, 599

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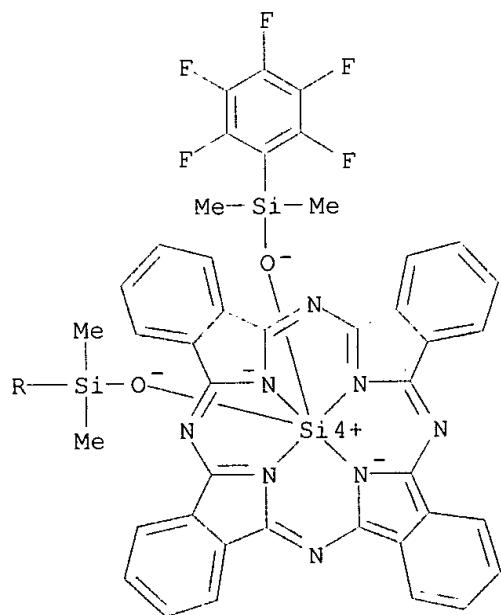
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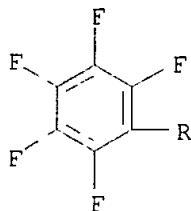




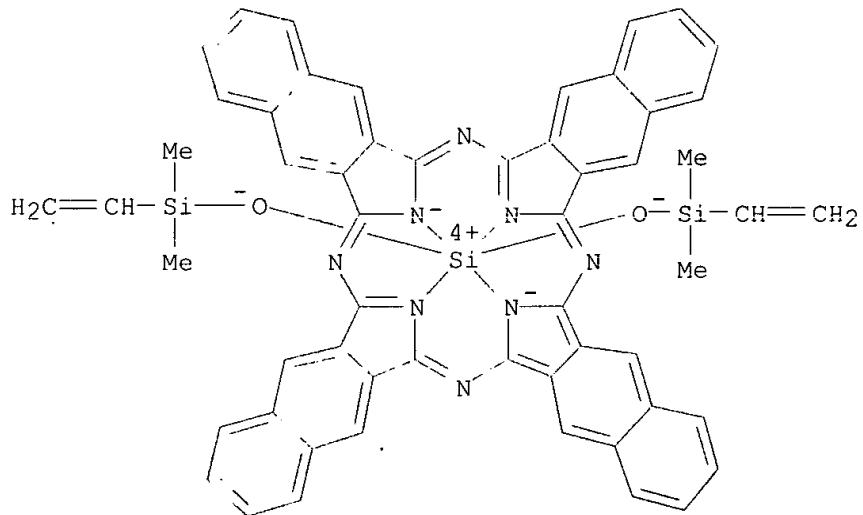
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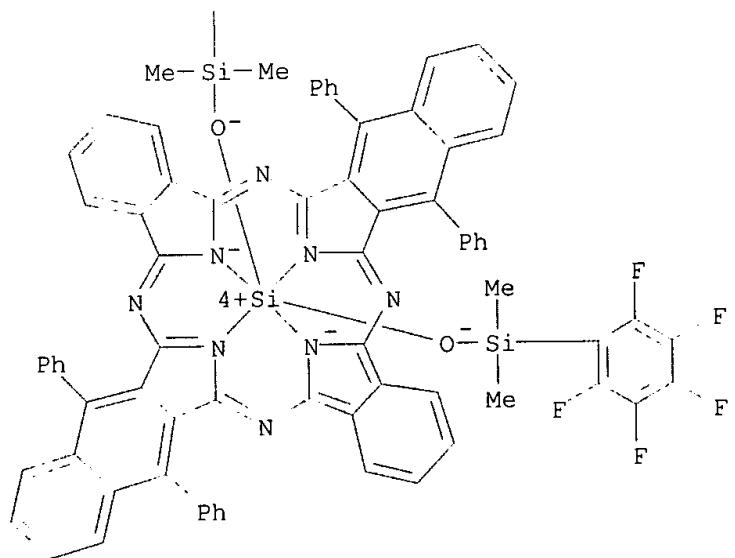
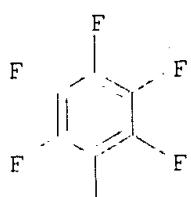




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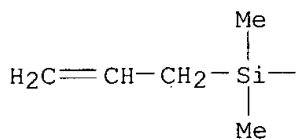


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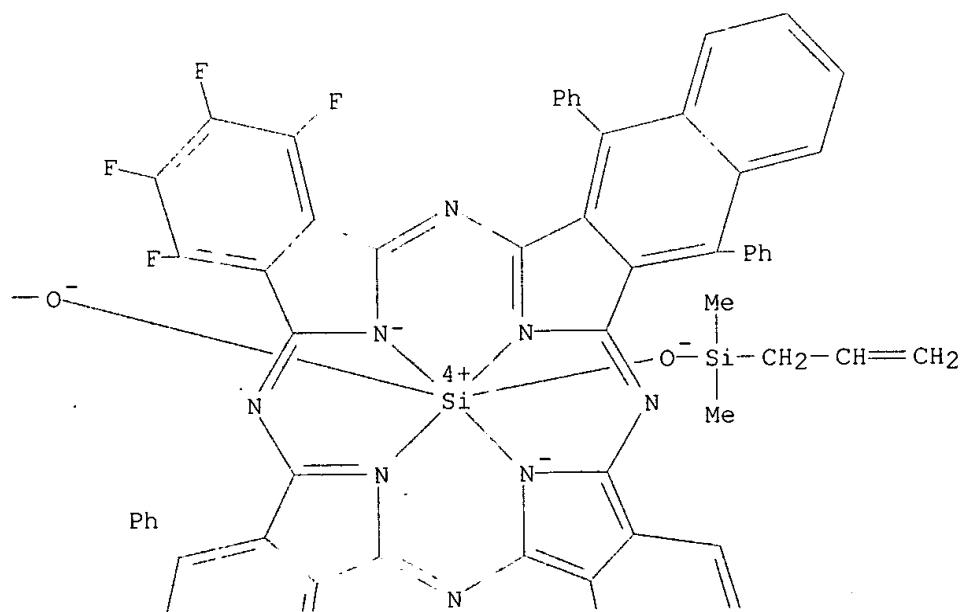


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NAME)

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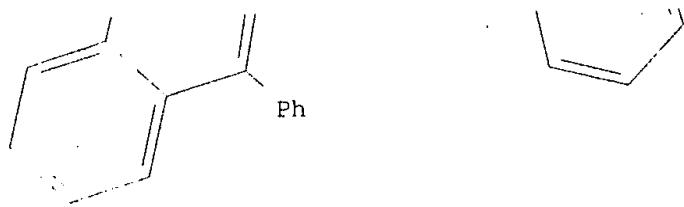


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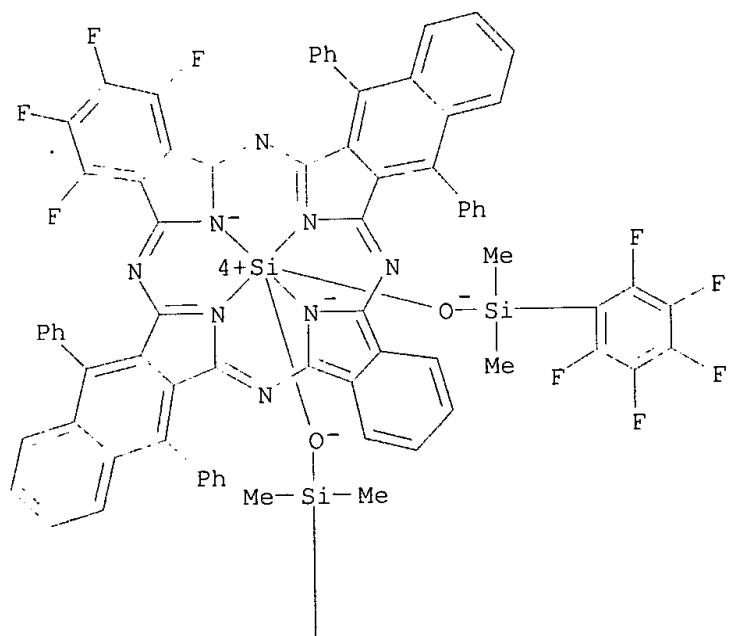
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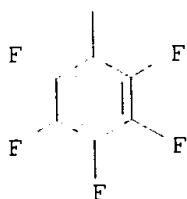


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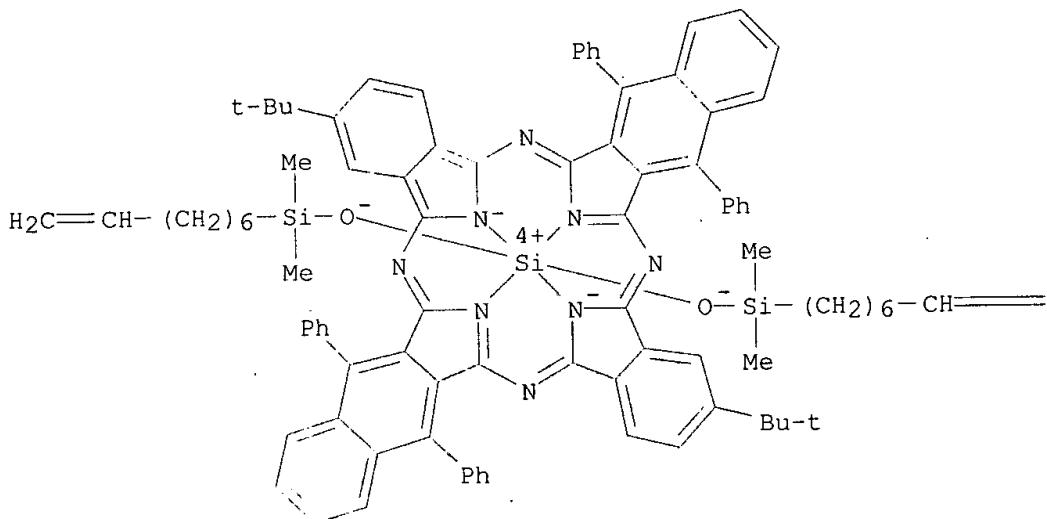
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Search completed by David Schreiber 308-4292

Epperson 09/776, 599

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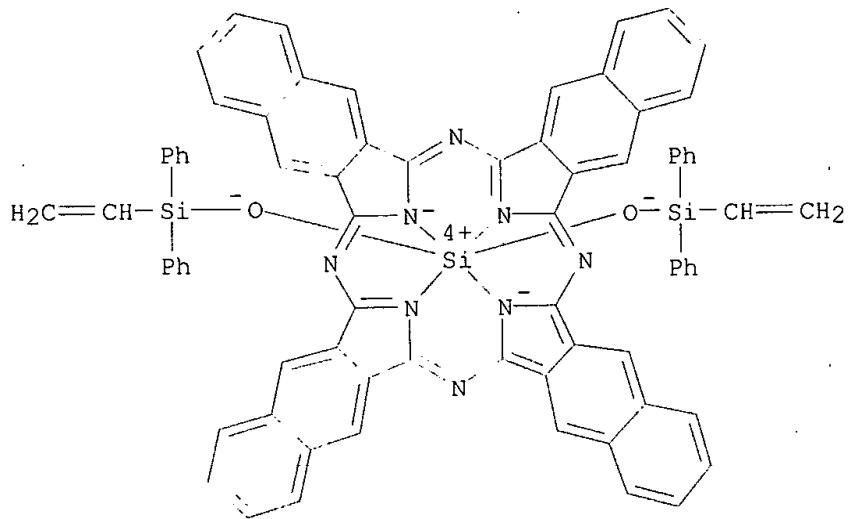


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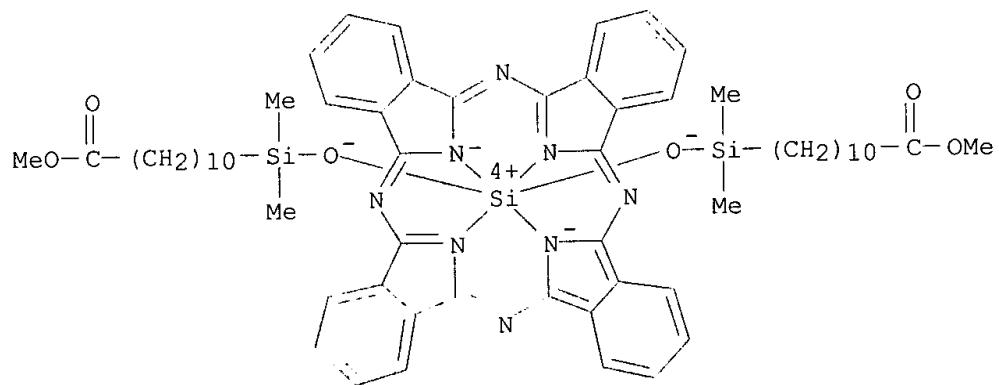
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(prepn. of hybrid phthalocyanine derivs. for uses in immunoassays and  
nucleic acid assays)

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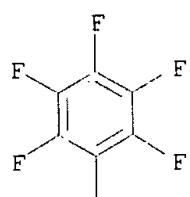


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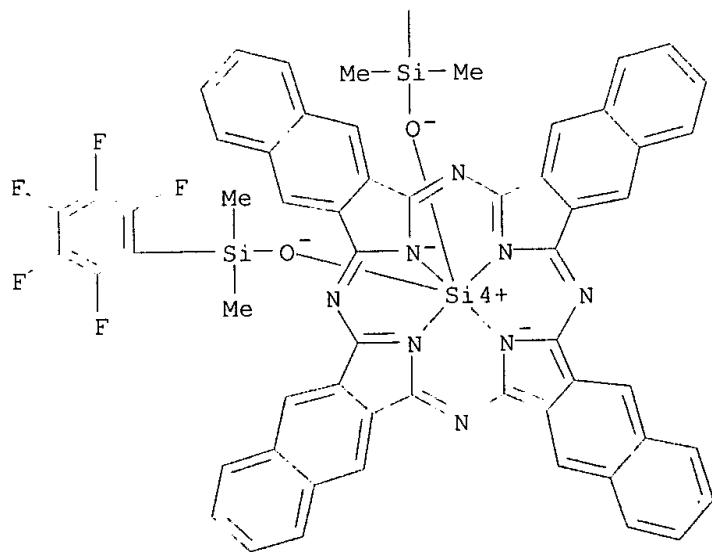


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NAME)

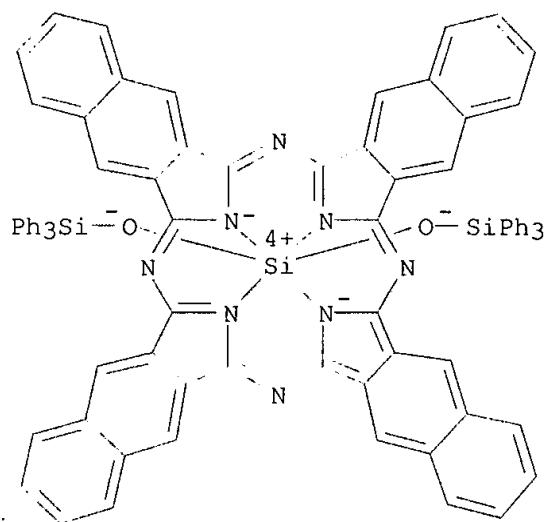
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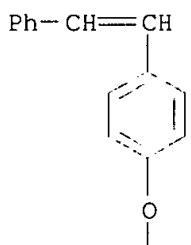
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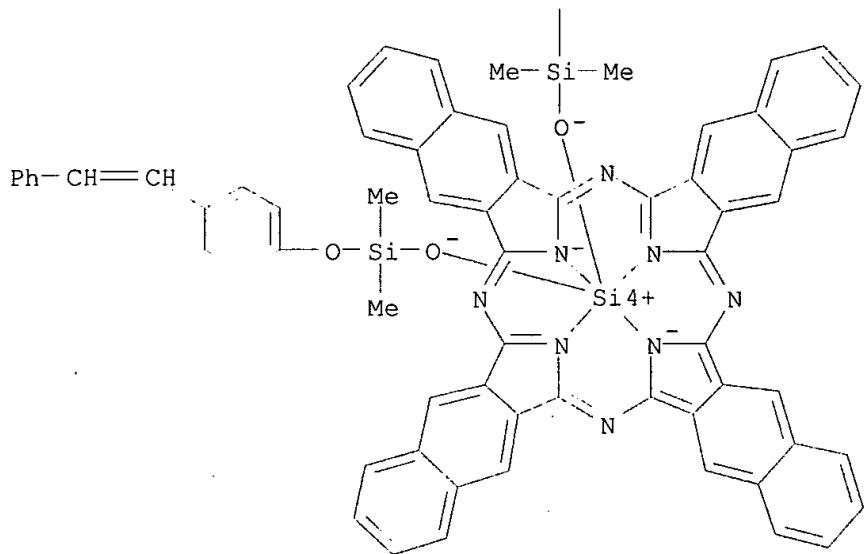
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PAGE 1-A



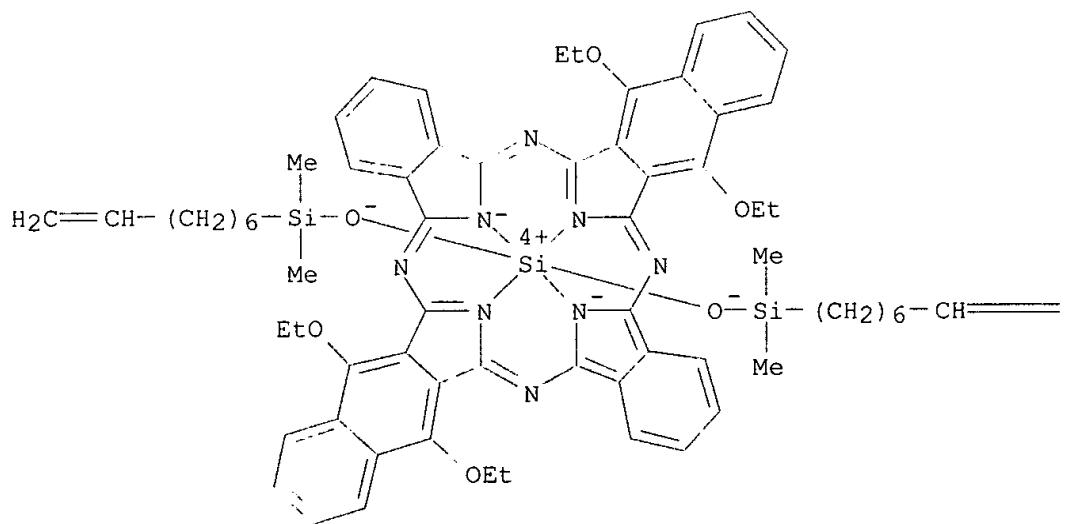
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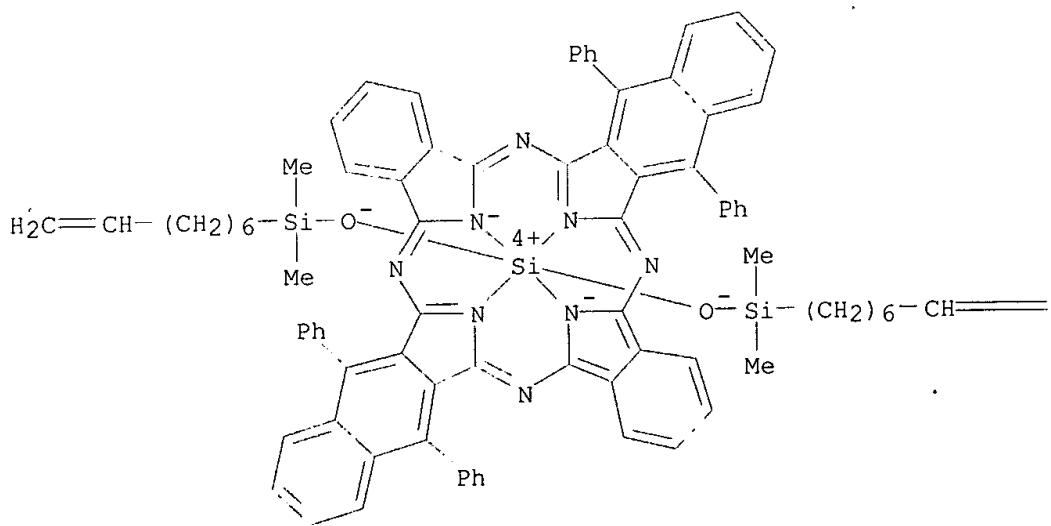
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PAGE 1-A



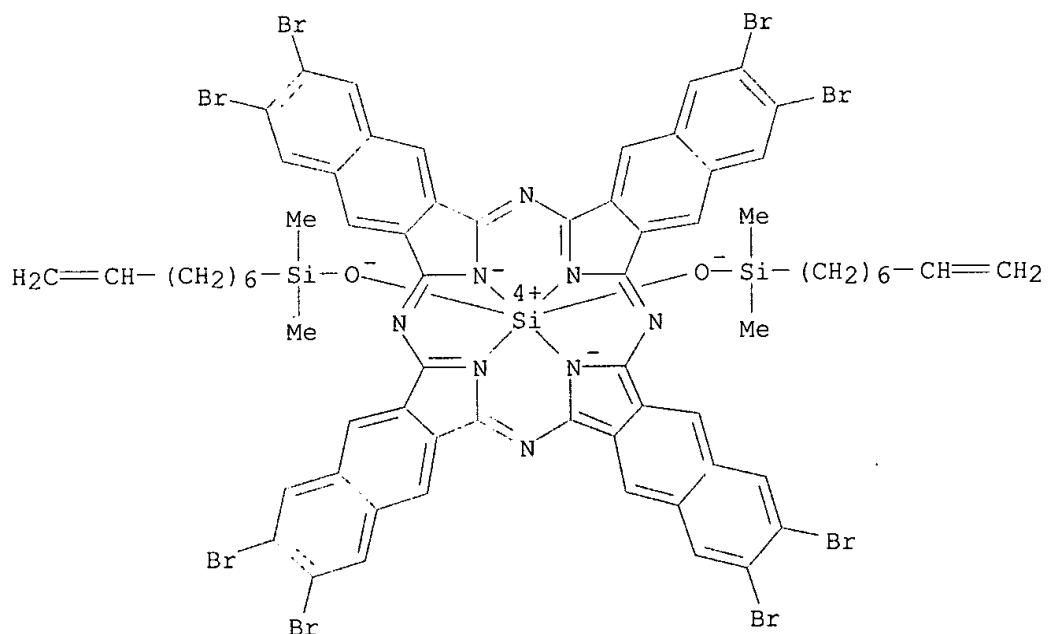
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RN 209161-25-1 HCAPLUS  
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\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
REFERENCE COUNT: 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1998:392268 HCAPLUS

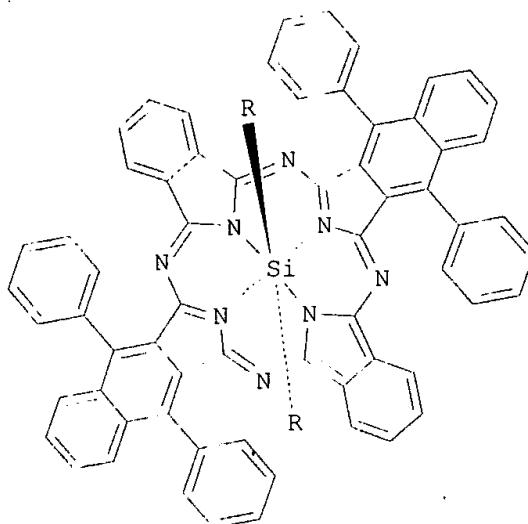
Epperson 09/776,599

DOCUMENT NUMBER: 129:78836  
TITLE: Fluorescence energy transfer and intramolecular energy transfer in particles using novel compounds for the application in immunoassays and nucleic acid assays  
INVENTOR(S): Buechler, Kenneth F.; Noar, J. Barry  
; Tadesse, Lema  
PATENT ASSIGNEE(S): Biosite Diagnostics Inc., USA  
SOURCE: U.S., 36 pp., Cont.-in-part of U. S. Ser. No. 274,534.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 7  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5763189	A	19980609	US 1994-311098	19940923
US 6238931	B1	20010529	US 1994-274534	19940712
US 6251687	B1	20010626	US 1995-409298	19950323
US 5824799	A	19981020	US 1996-620597	19960322
US 2002061602	A1	20020523	US 2001-776599	20010201
PRIORITY APPLN. INFO.:				
			US 1993-126367	B2 19930924
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			US 1994-274534	A2 19940712
			US 1994-311098	A2 19940923
			WO 1994-US10826	W 19940923
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			US 1995-409825	A2 19950323
			US 1996-620597	A1 19960322
			US 1998-66255	A2 19980424

OTHER SOURCE(S): MARPAT 129:78836

GI



I



AB The invention concerns the synthesis of novel dyes and methods for the detection or visualization of analytes; more specifically fluorescent latex particles which randomly incorporate the novel fluorescent dyes and utilize fluorescent energy transfer and intramol. energy transfer, for the detection of analytes in immunoassays or in nucleic acid assay. Particles comprise an energy donor as a first component and a fluorescent dye as a second component that are positioned at an energy exchanging distance from one another; the two components have a Stokes shift of greater than or equal to 50 nm; and the particles bind on the surface a protein, polypeptide, nucleic acid, nucleotide or protein contg. ligand analog. In addn., novel fluorescent dyes (e.g., I ) are described which exhibit intramol. energy transfer for use to label various mols., proteins, polypeptides, nucleotides and nucleic acids or to incorporate into particles. Compns. are given to minimize fluorescence quenching and to maximize fluorescence intensities of the dye mols. in the particles through the use of different dye mols. which posses the same or very similar excitation and emission wavelengths. Many novel phthalocyanine derivs. and hybrid phthalocyanine derivs. are disclosed. Thus latex microparticles have at least one hybrid phthalocyanine deriv., that deriv. has at least one donor subunit with a desired excitation peak; and at least one acceptor unit with desired emission peak. The deriv.(s) is/are capable of intramol. energy transfer from the donor subunit to the acceptor subunit; such derivs. also may contain and electron transfer subunit. Axial ligands may covalently bound to the metals contained in the hybrid phthalocyanine derivs. Numerous compds. capable of intramol. energy transfer as well as compds. for fluorescence energy transfer were synthesized.

IT 68812-20-4P 92396-89-9P 163968-88-5P  
163968-89-6P 163968-92-1P 163968-94-3P  
163968-95-4P 163969-09-3P 163969-10-6P

183872-63-1P 209161-30-8P 209161-31-9P

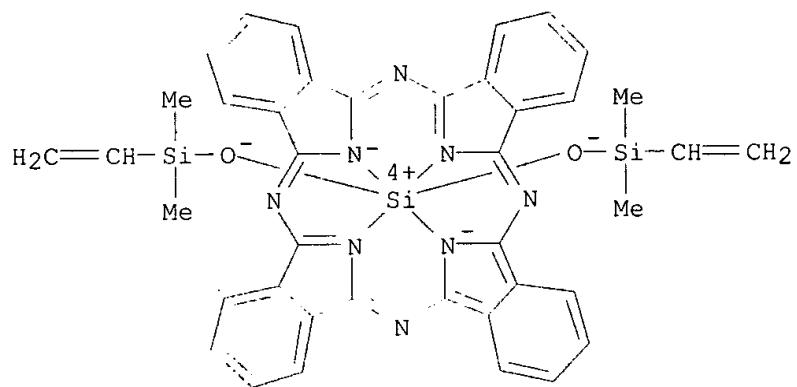
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RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST  
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(Fluorescence energy transfer and intramol. energy transfer in  
particles using novel compds. for the application in immunoassays and  
nucleic acid assays)

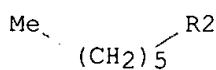
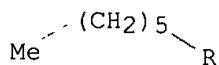
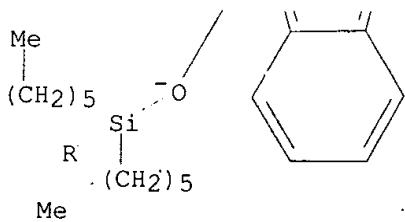
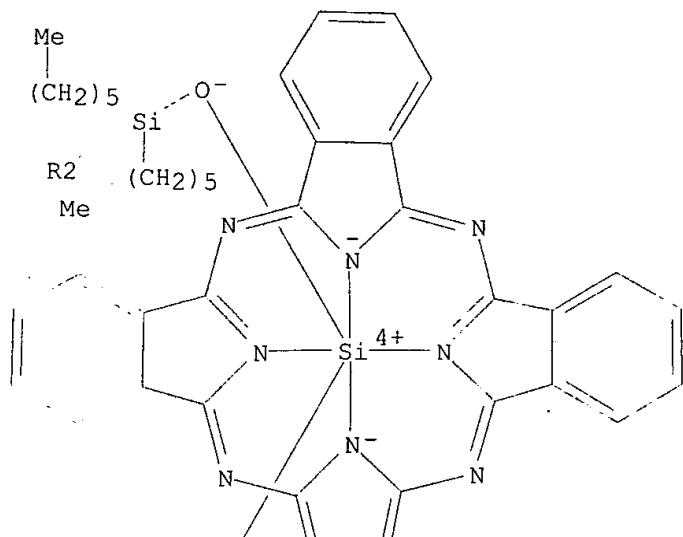
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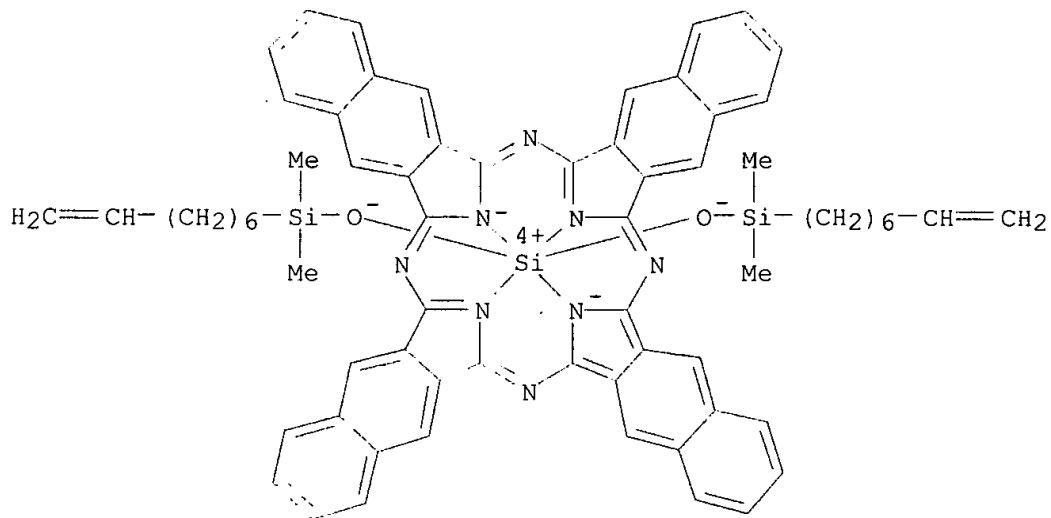


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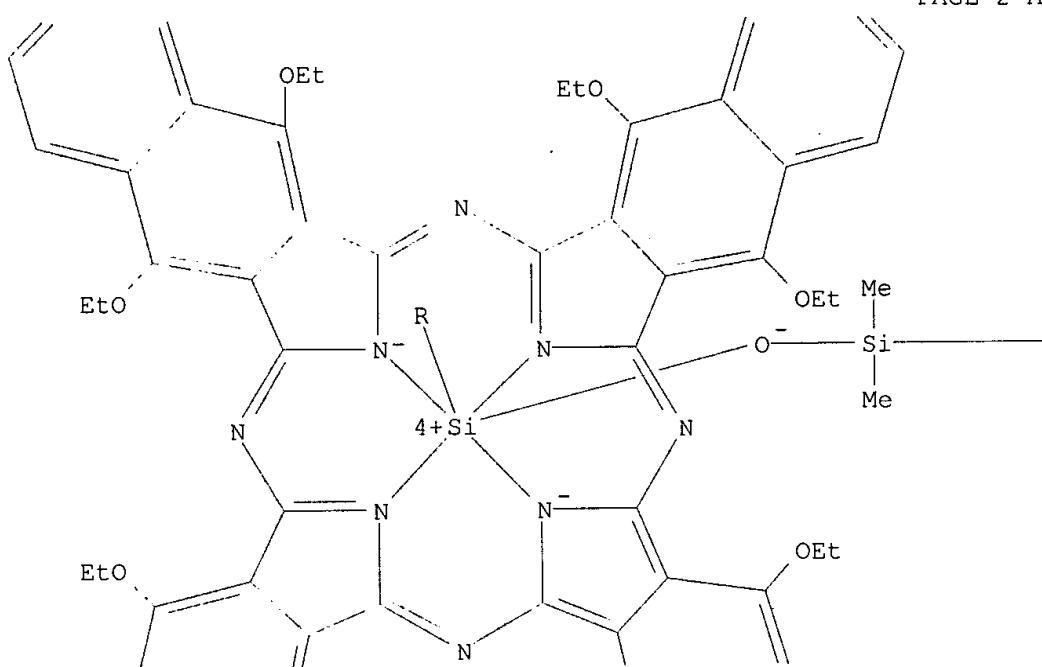


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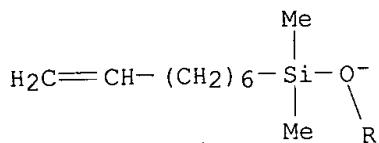
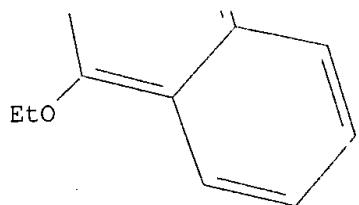
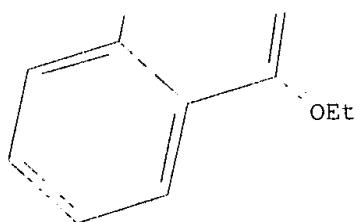


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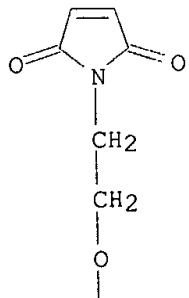
Epperson 09/776, 599

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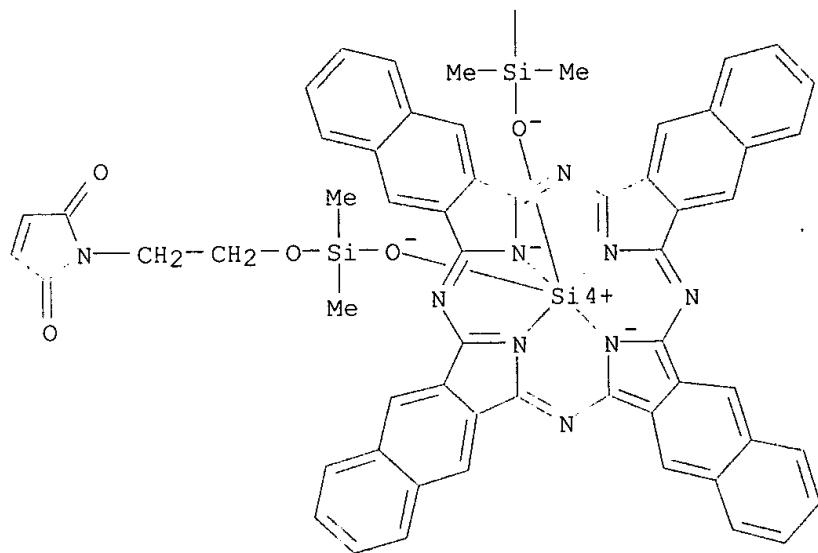


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q]porphyrazinato(2-).kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-,  
(OC-6-12)- (9CI) (CA INDEX NAME)

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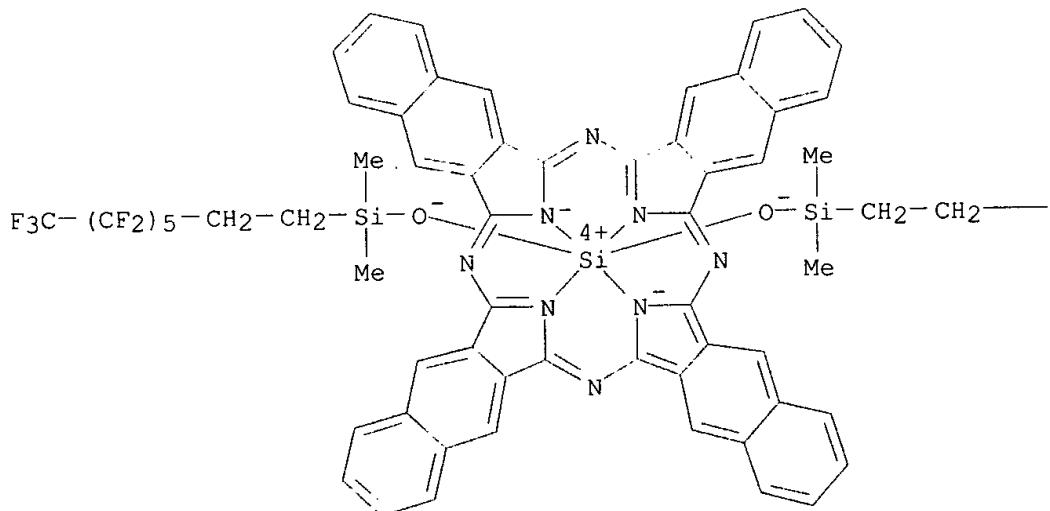
PAGE 2-A



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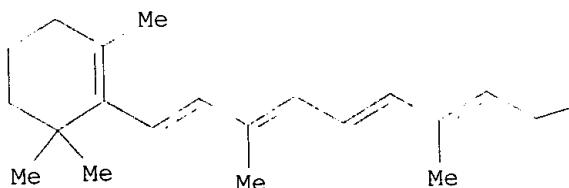
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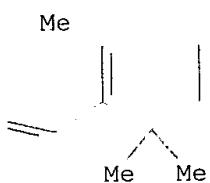
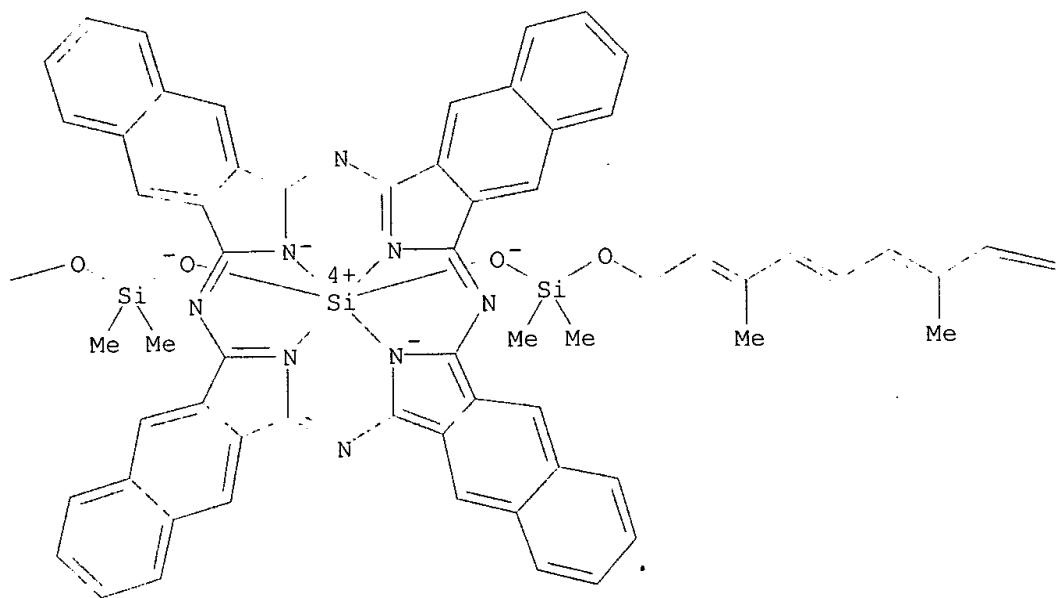
PAGE 1-B

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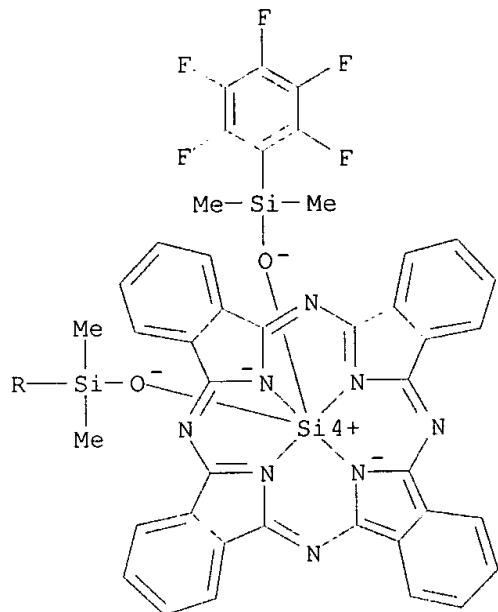
PAGE 1-A



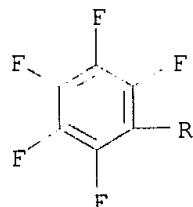


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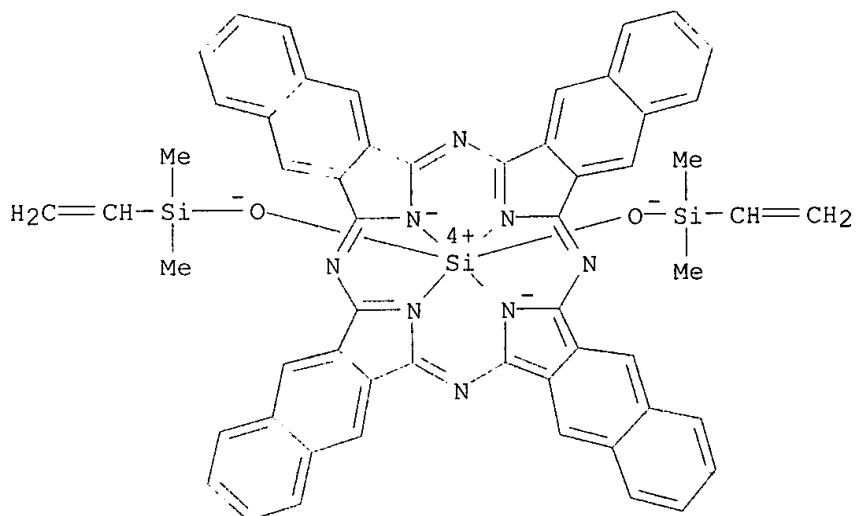


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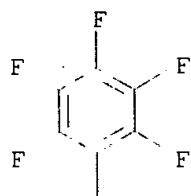
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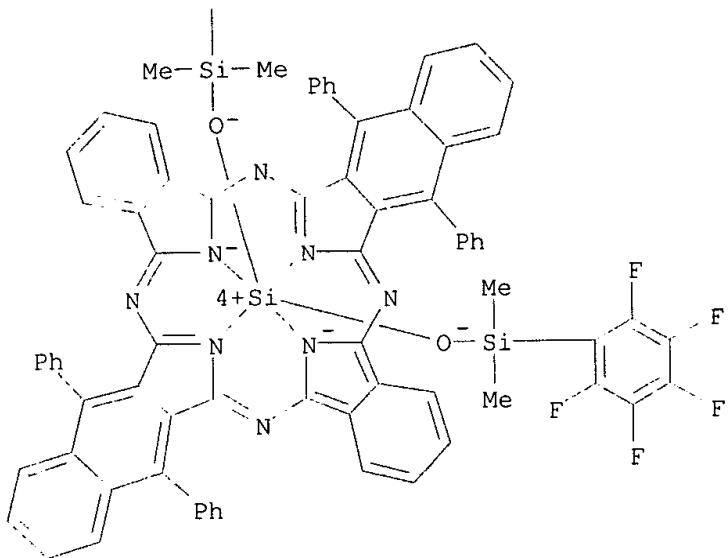


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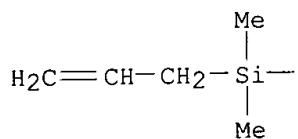
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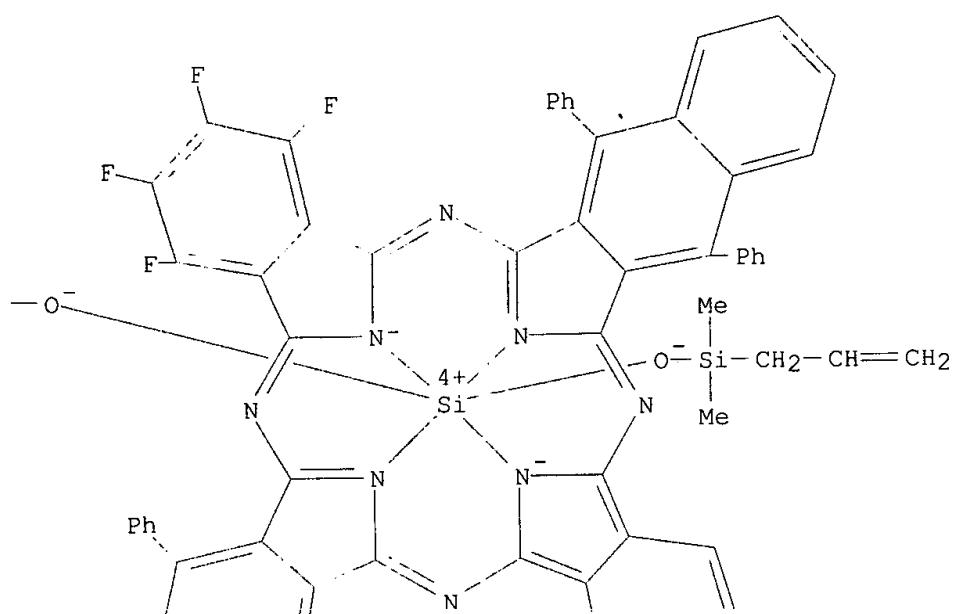




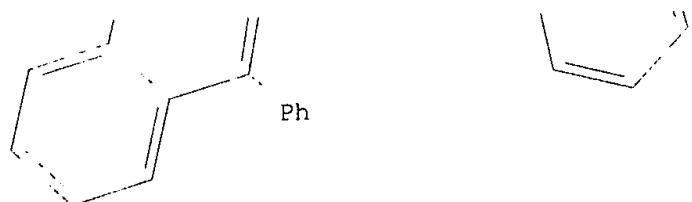
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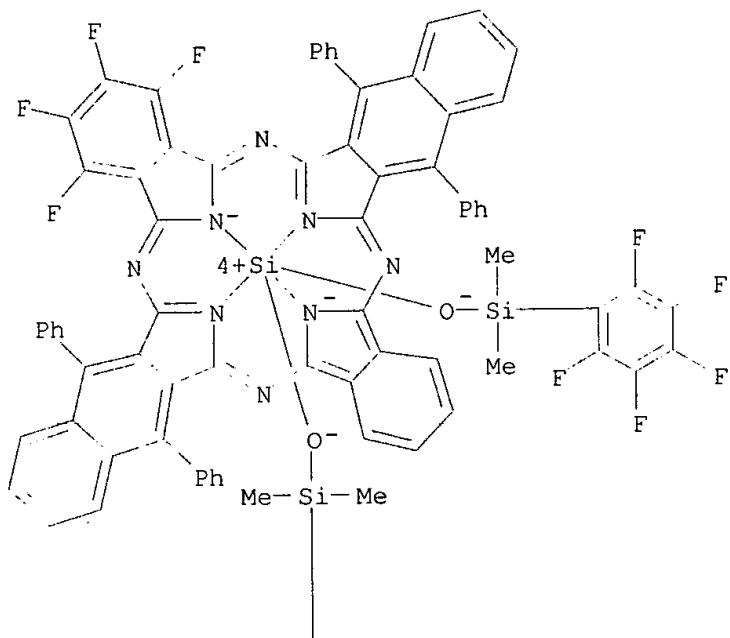
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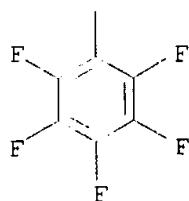
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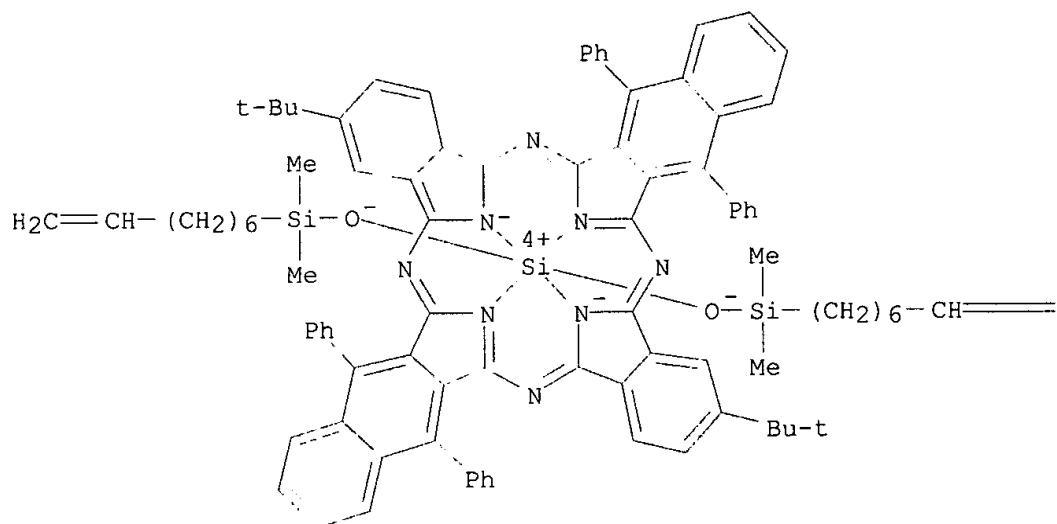
PAGE 1-A



PAGE 2-A

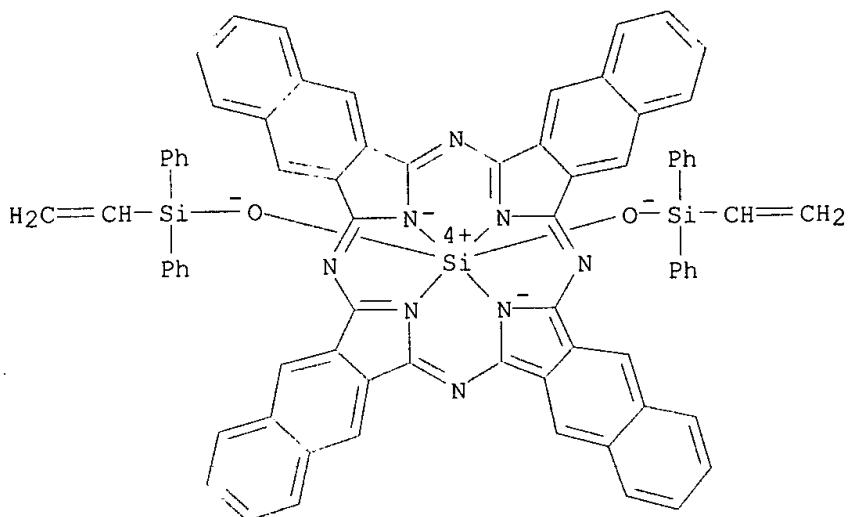


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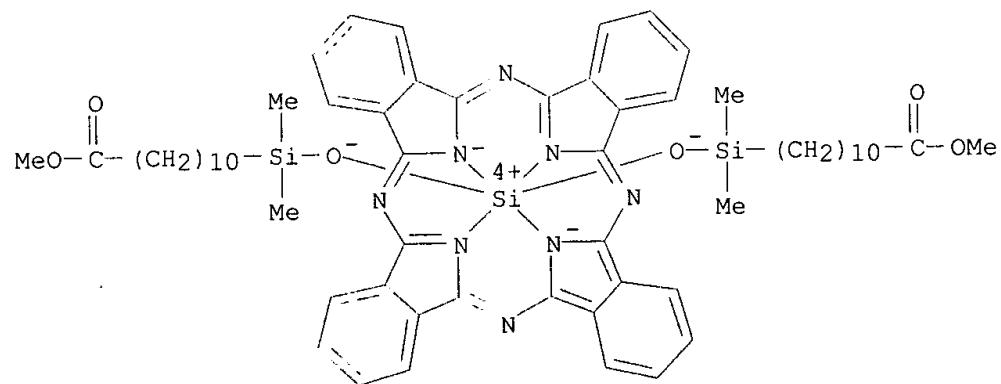
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 183872-57-3P 183872-66-4P 209161-25-1P  
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 particles using novel compds. for the application in immunoassays and  
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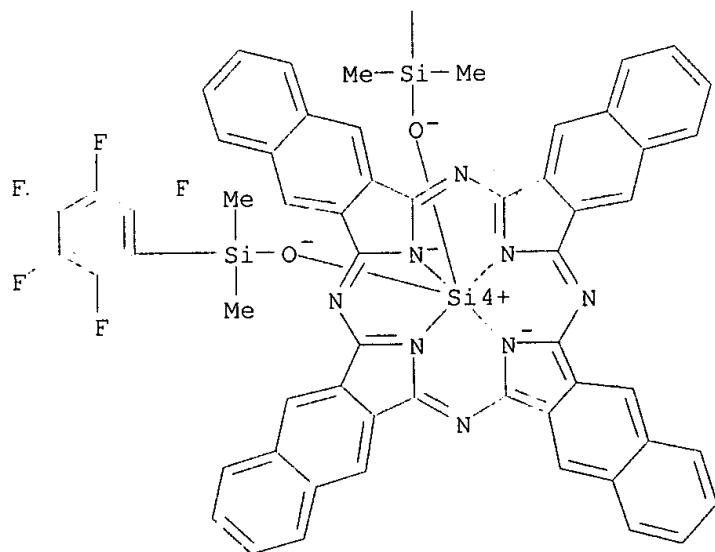
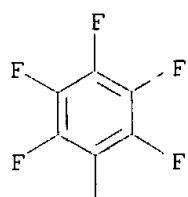
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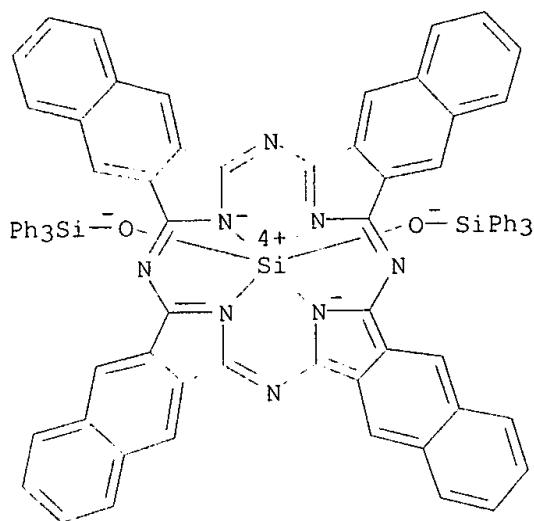
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(OC-6-12)- (9CI) (CA INDEX NAME).



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NAME)



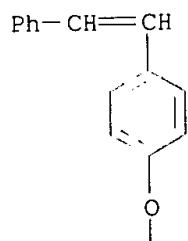
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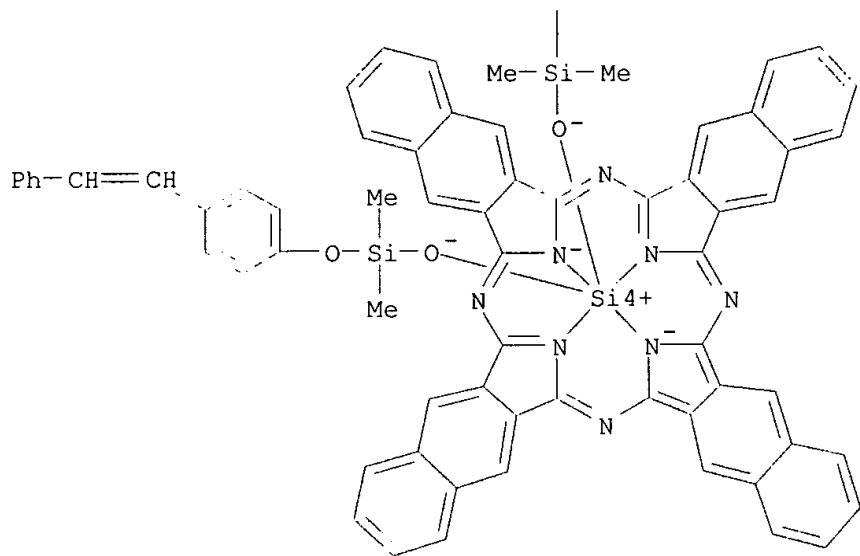
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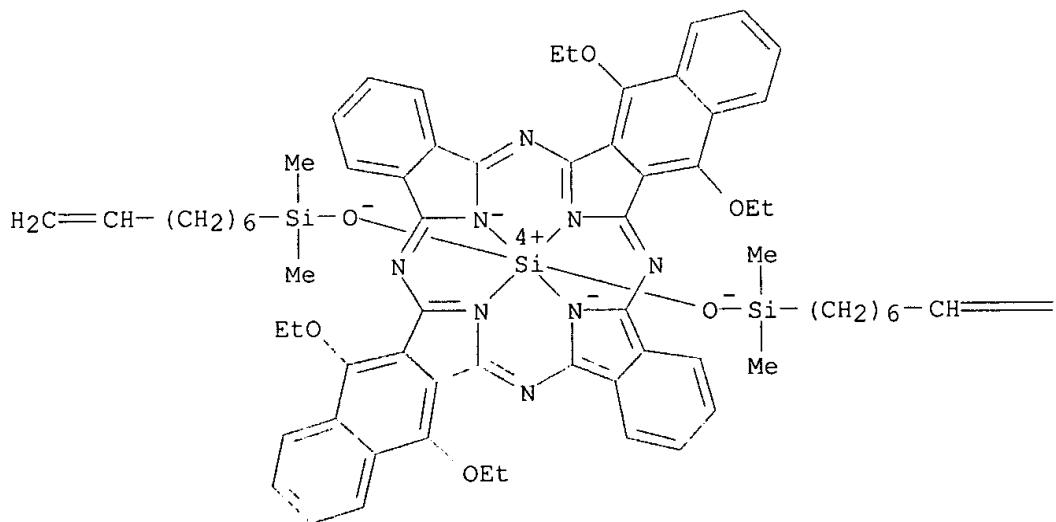
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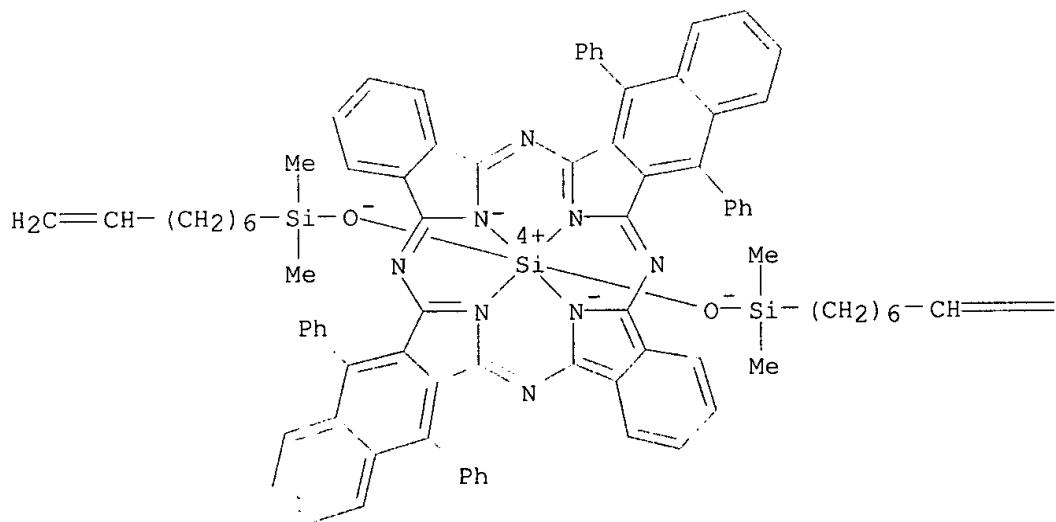
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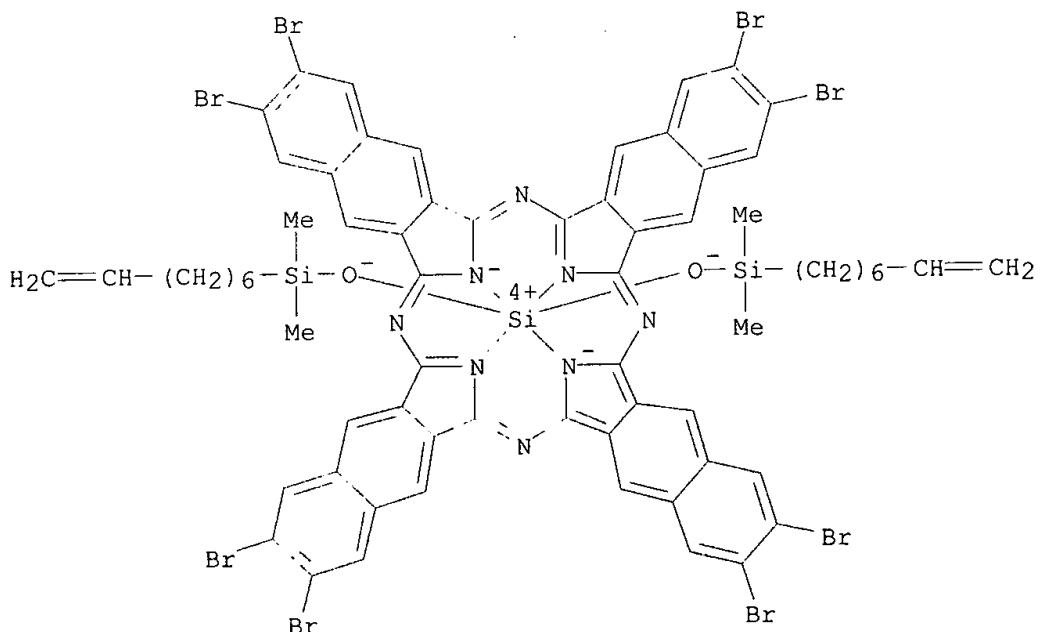
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=CH<sub>2</sub>

RN 183872-66-4 HCPLUS  
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RN 209161-25-1 HCPLUS  
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\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 6 OF 7 HCPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 1996:761698 HCPLUS

DOCUMENT NUMBER: 126:33023  
 TITLE: Hybrid phthalocyanine derivatives and their uses  
 INVENTOR(S): Buechler, Kenneth F.; Noar, Joseph  
 B.; Tadesse, Lema  
 PATENT ASSIGNEE(S): Biosite Diagnostics Incorporated, USA  
 SOURCE: PCT Int. Appl., 190 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 7  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9629367	A1	19960926	WO 1996-US3833	19960322
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML				
CA 2215727	AA	19960926	CA 1996-2215727	19960322
AU 9653188	A1	19961008	AU 1996-53188	19960322
EP 820489	A1	19980128	EP 1996-909805	19960322
EP 820489	B1	20010711		
R: AT, CH, DE, ES, FR, GB, IT, LI, NL				
JP 10508897	T2	19980902	JP 1996-528604	19960322
AT 203045	E	20010715	AT 1996-909805	19960322
PRIORITY APPLN. INFO.:			US 1995-409825 A	19950323
			WO 1996-US3833 W	19960322

AB Water-sol. hybrid phthalocyanine derivs., fluorescent latex particles incorporating which are useful in competitive and noncompetitive immunoassays and nucleic acid assays, have (1) .gtoreq.1 donor subunit with a desired excitation peak and (2) .gtoreq.1 acceptor subunit with a desired emission peak, and are capable of intramol. energy transfer from the donor subunit to the acceptor subunit. They may also contain an electron-transfer subunit. Axial ligands may be covalently bound to the metals contained in the water-sol. hybrid phthalocyanine derivs. Ligands, ligand analogs, polypeptides, proteins, and nucleic acids can be linked to the axial ligands of the dyes to form conjugates useful in immunoassays and nucleic acid assays.

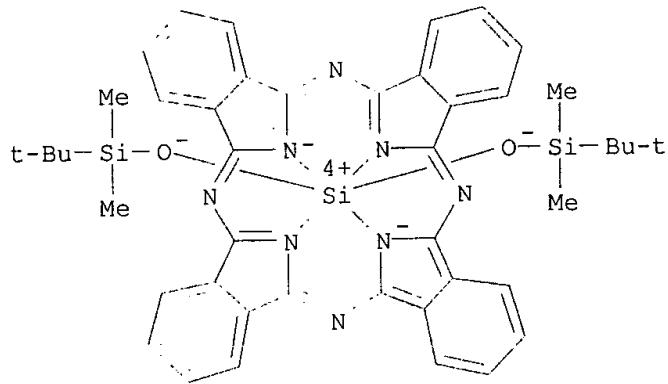
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 sulfonated 149971-18-6P 153454-01-4P  
 163968-88-5P 163968-89-6P 163968-91-0P,  
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 163968-92-1P 163968-94-3P 163968-95-4P  
 163969-07-1P 163969-08-2P 163969-09-3P  
 163969-10-6P 163969-11-7P 163969-15-1P  
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183873-13-4DP, sulfonated 183873-14-5DP, sulfonated  
183873-15-6DP, sulfonated 183873-17-8DP, sulfonated  
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183973-60-6P 184013-80-7P  
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(prepn. of water-sol. fluorescent hybrid phthalocyanine derivs. for  
immunoassays)

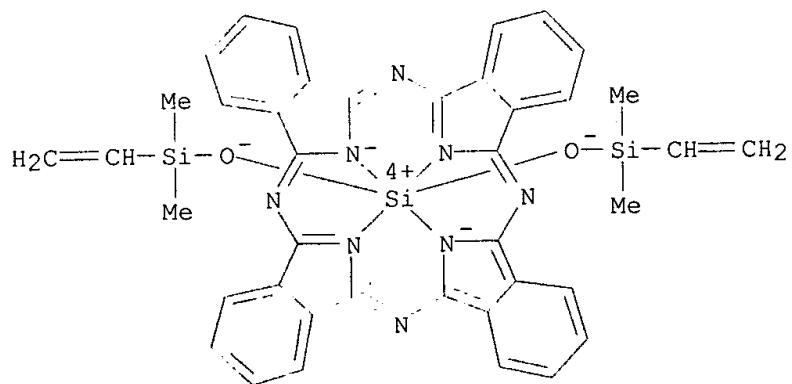
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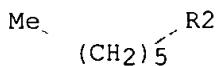
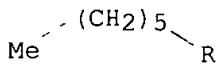
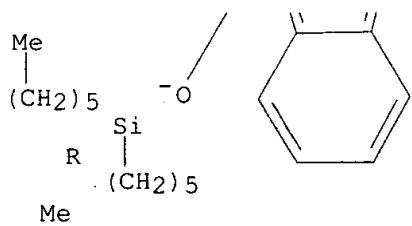
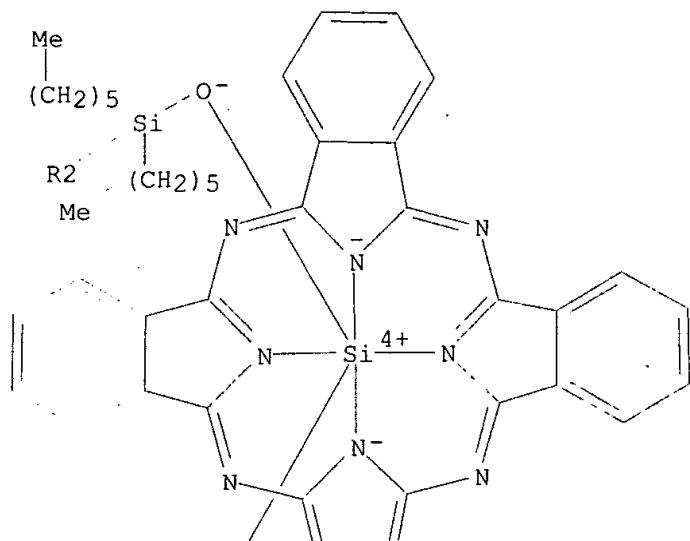
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NAME)

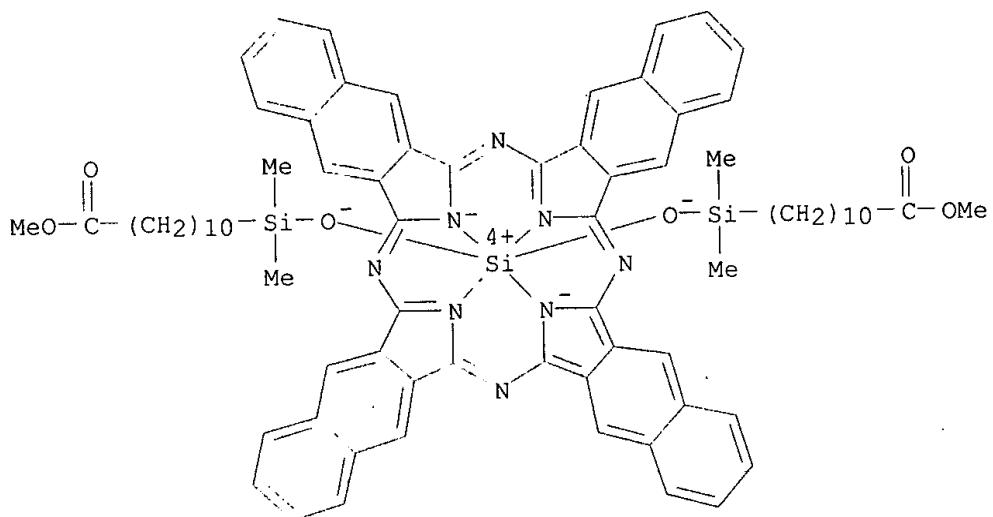


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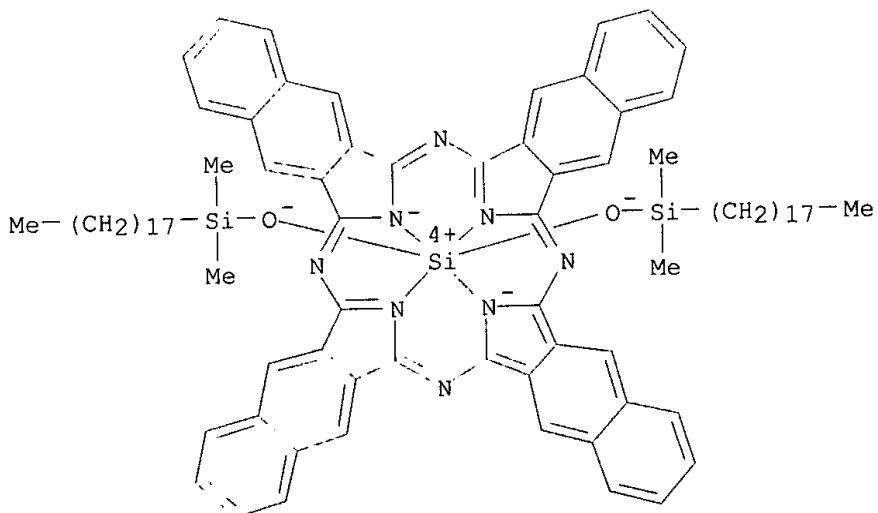
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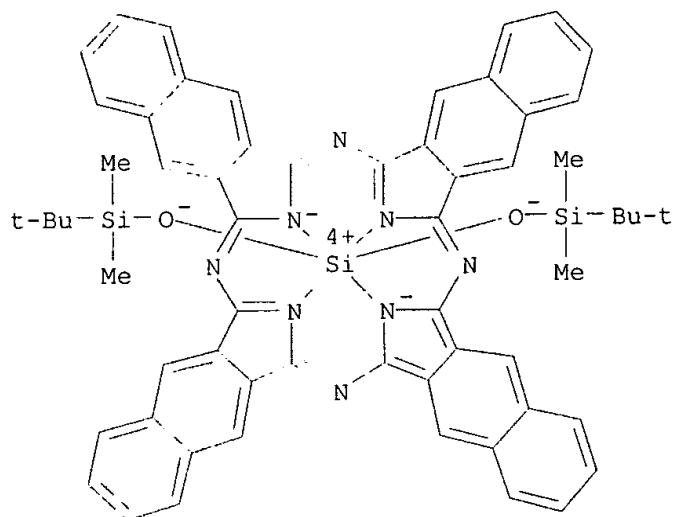
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.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX  
NAME)



RN 149971-18-6 HCPLUS  
CN Silicon, bis(dimethylloctadecylsilanolato)[37H,39H-tetranaphtho[2,3-b:2',3'-g:2',3''-1:2'',3'''-q]porphyrazinato(2-).kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

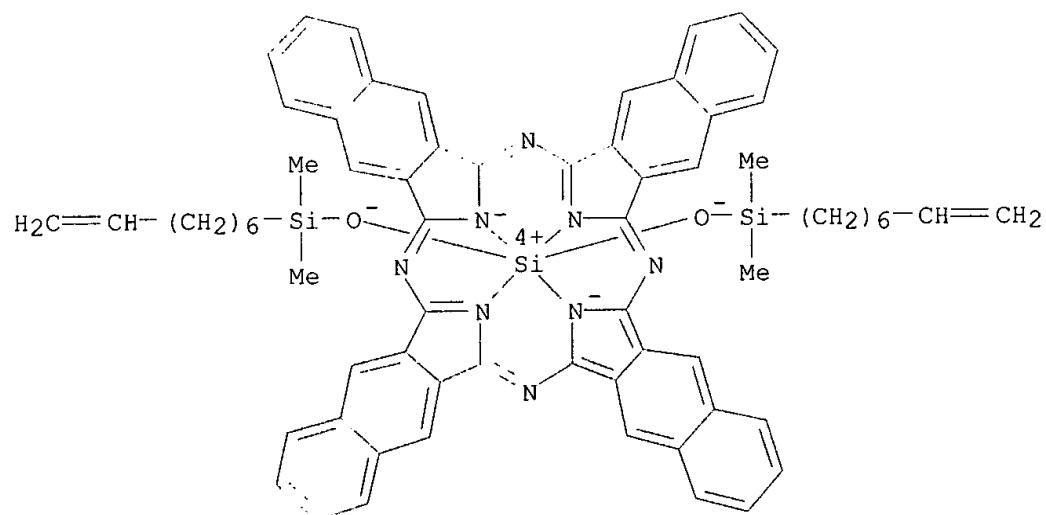


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RN 163968-88-5 HCAPLUS

RN 165966-06-5 (NCI-CDS)  
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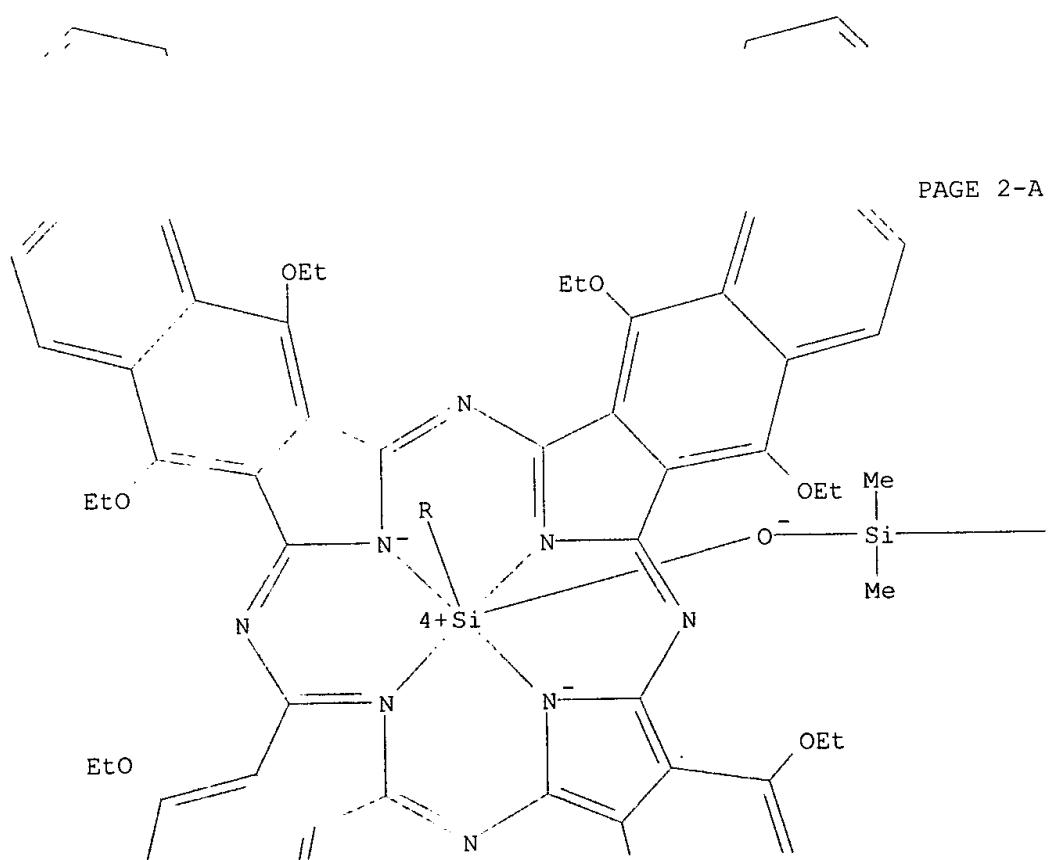


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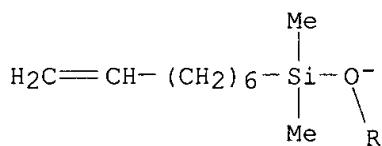
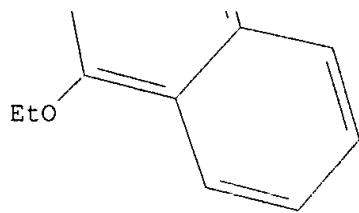
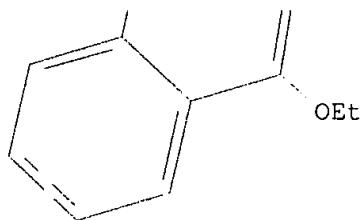
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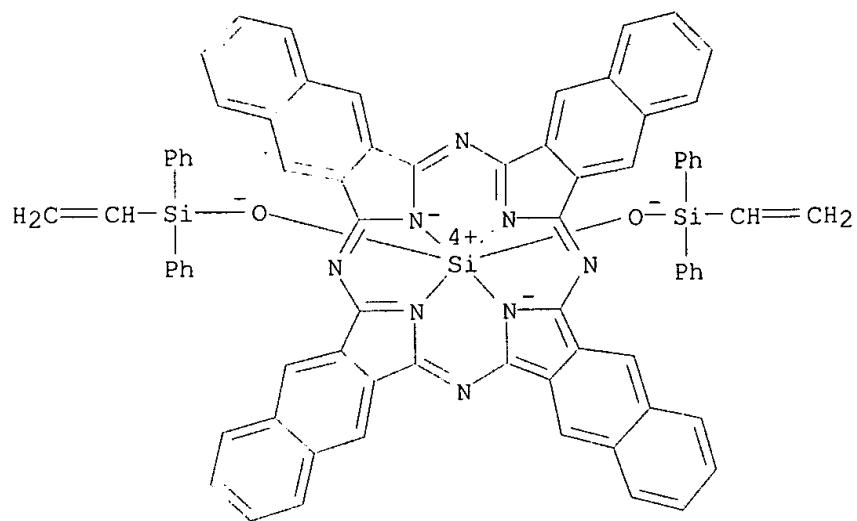


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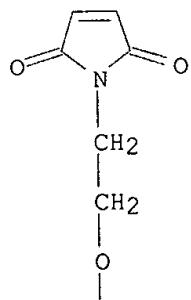
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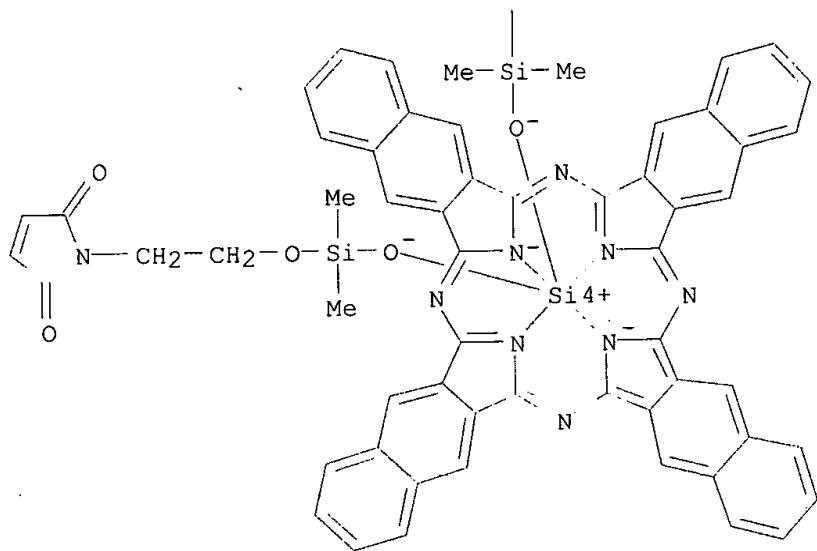
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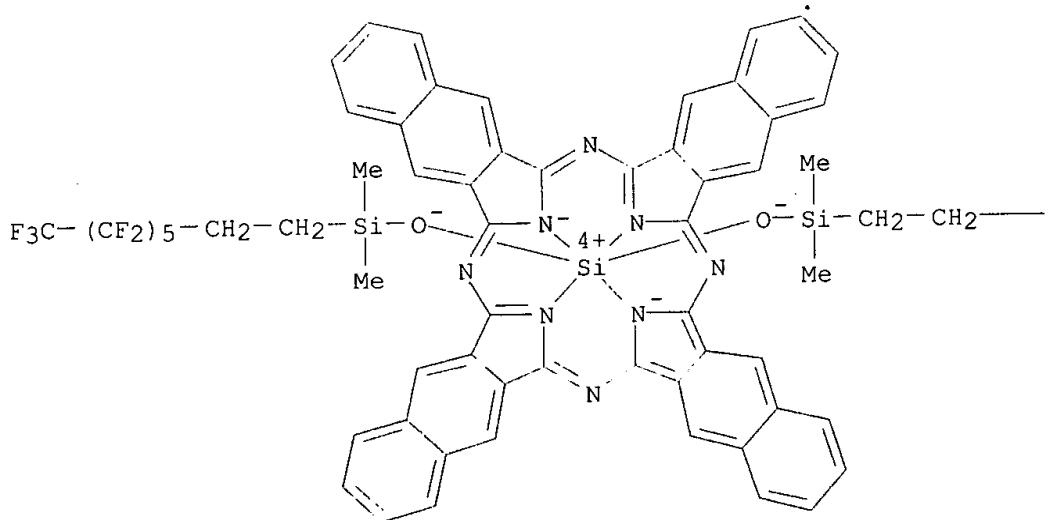
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CN Silicon, bis[dimethyl(3,3,4,4,5,5,6,6,7,7,8,8,8- tridecafluoroctyl)silanolato-.kappa.O][37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2'',3'''-q]porphyrzinato(2-).kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

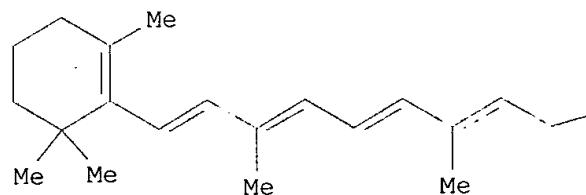


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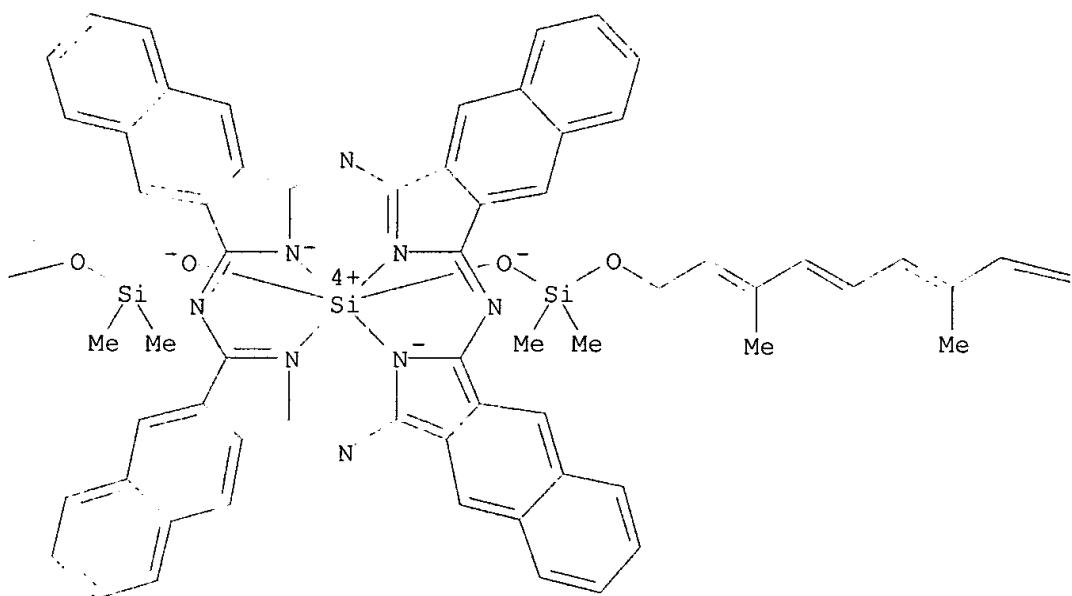
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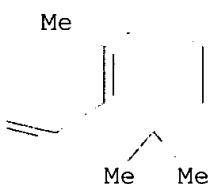
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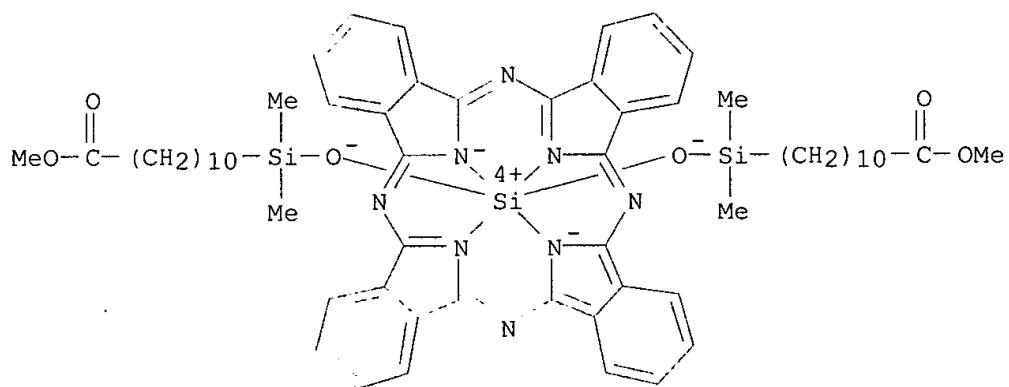


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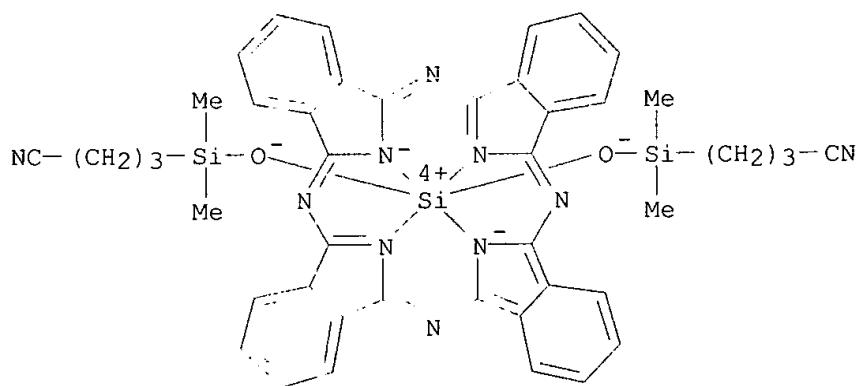
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(OC-6-12)- (9CI) (CA INDEX NAME)



RN 163969-08-2 HCAPLUS

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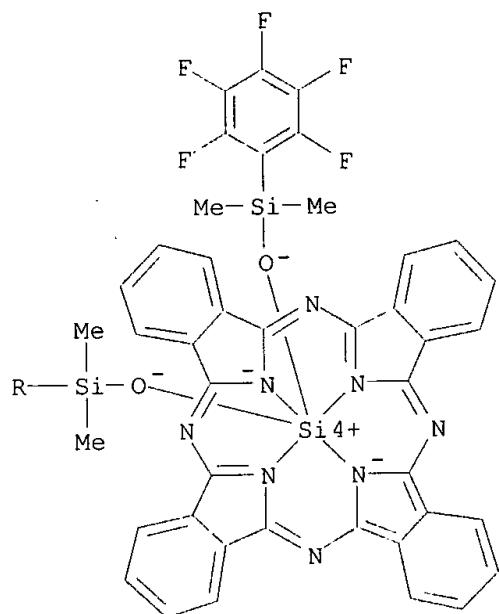


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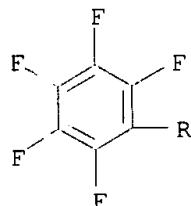
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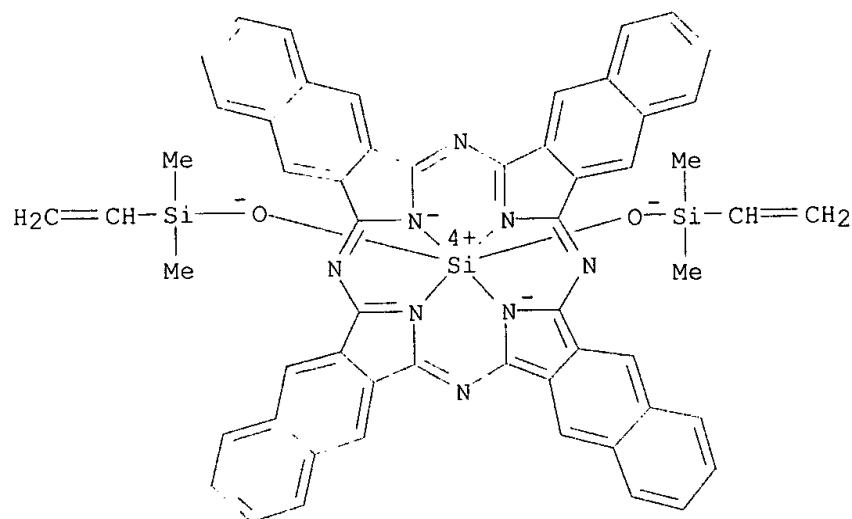


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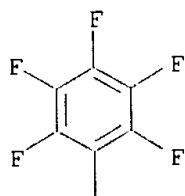
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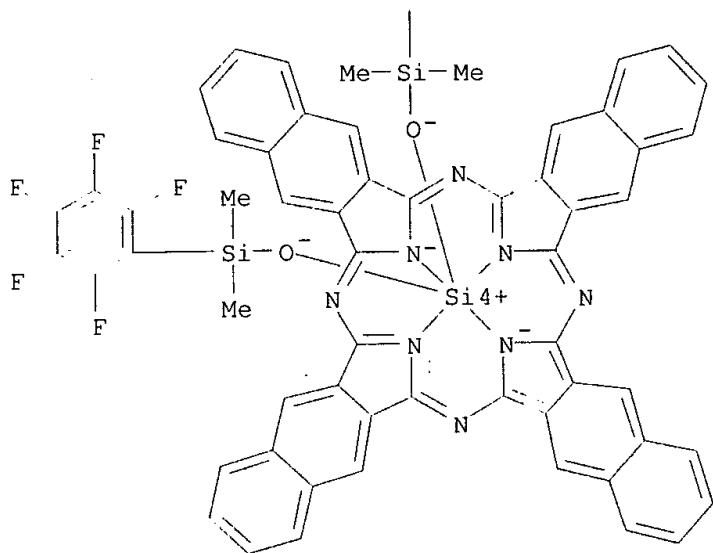
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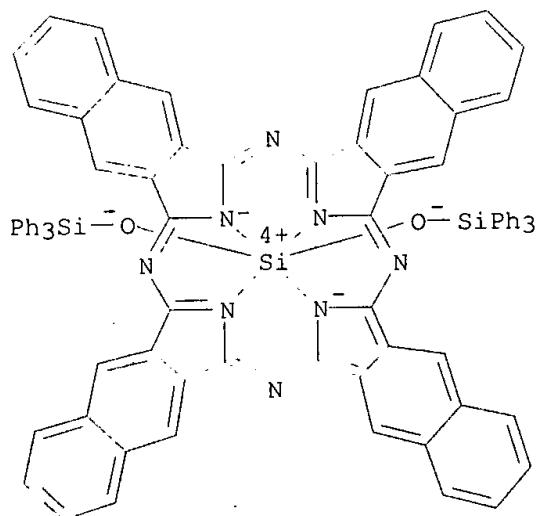
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NAME)

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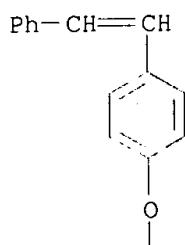
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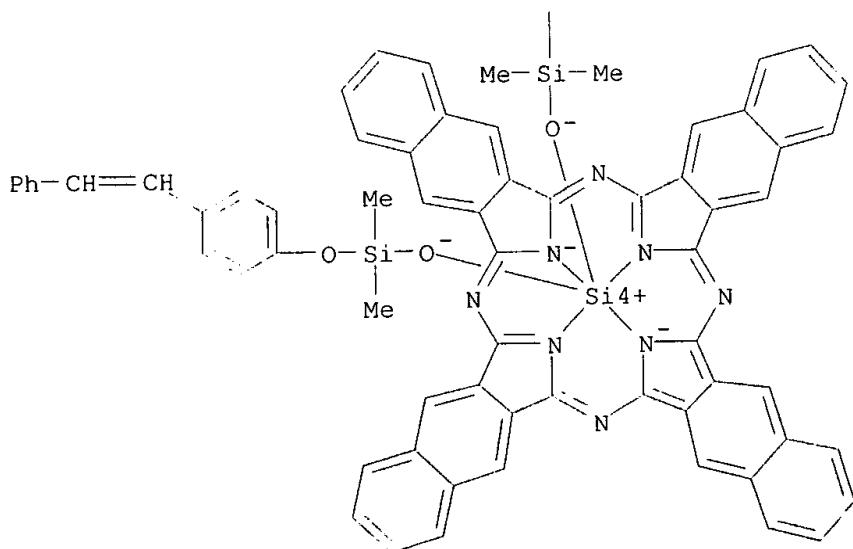
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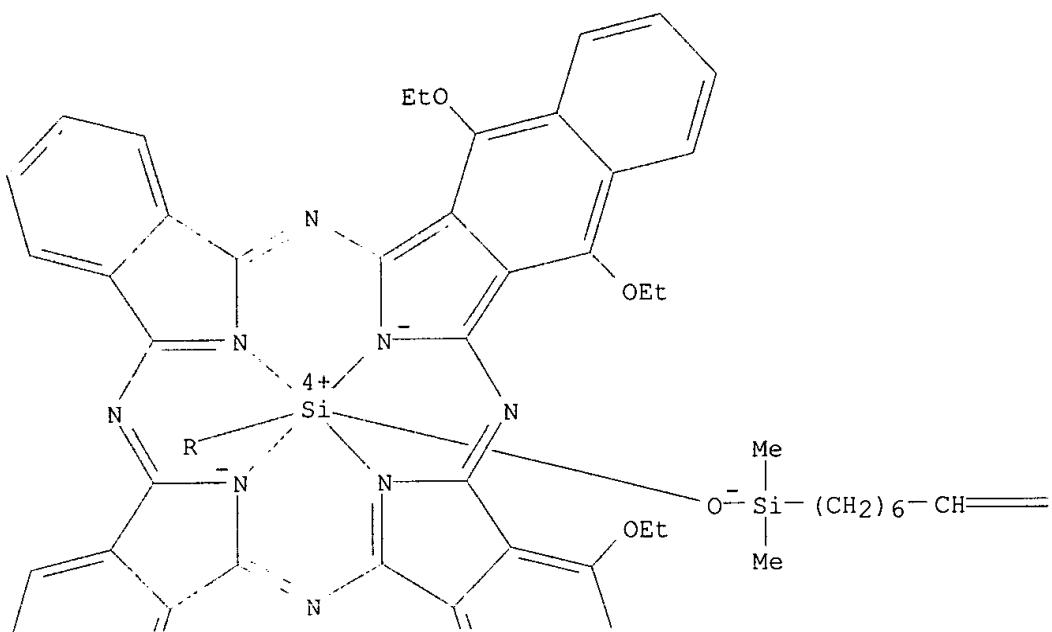
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Search completed by David Schreiber 308-4292

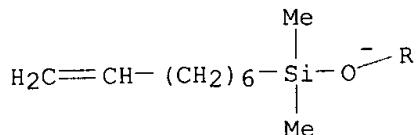
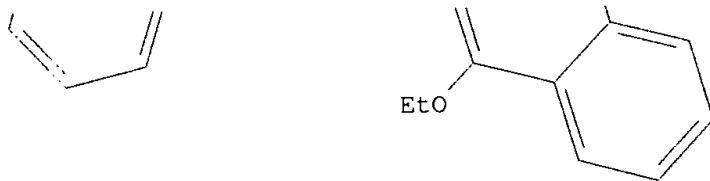
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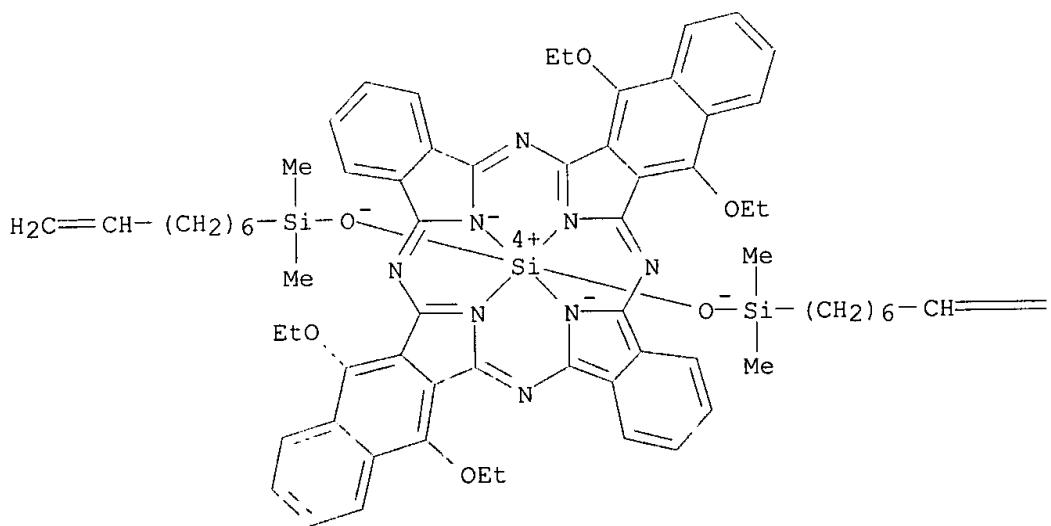
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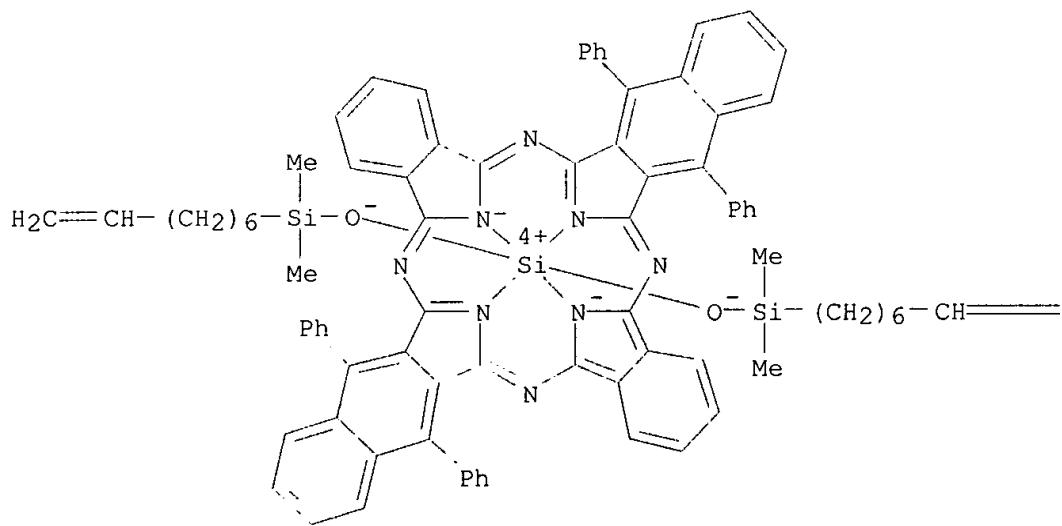
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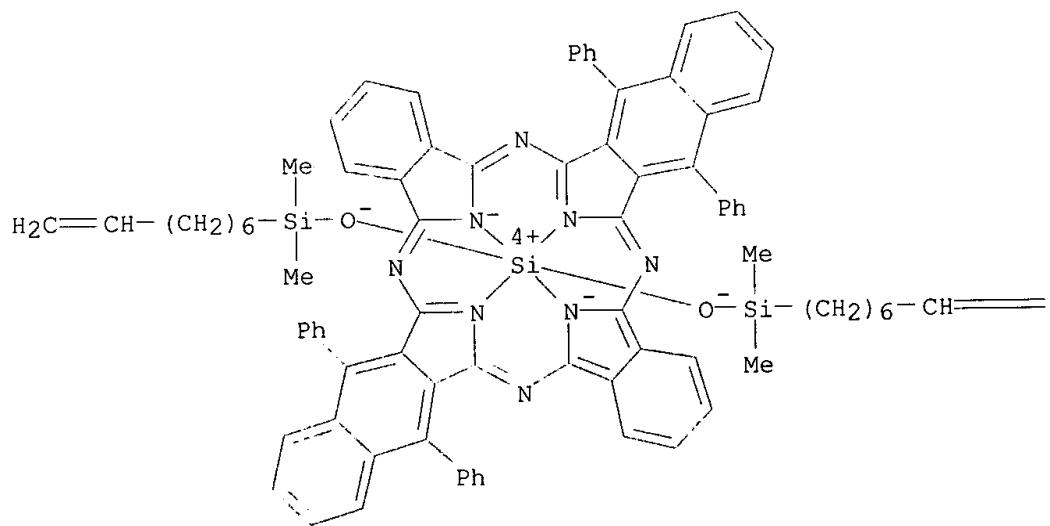
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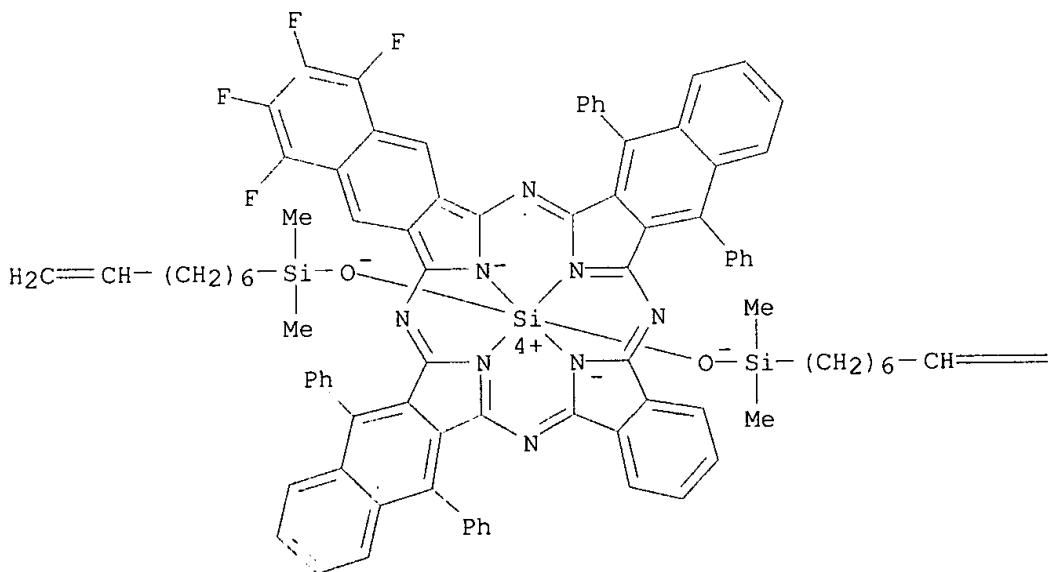
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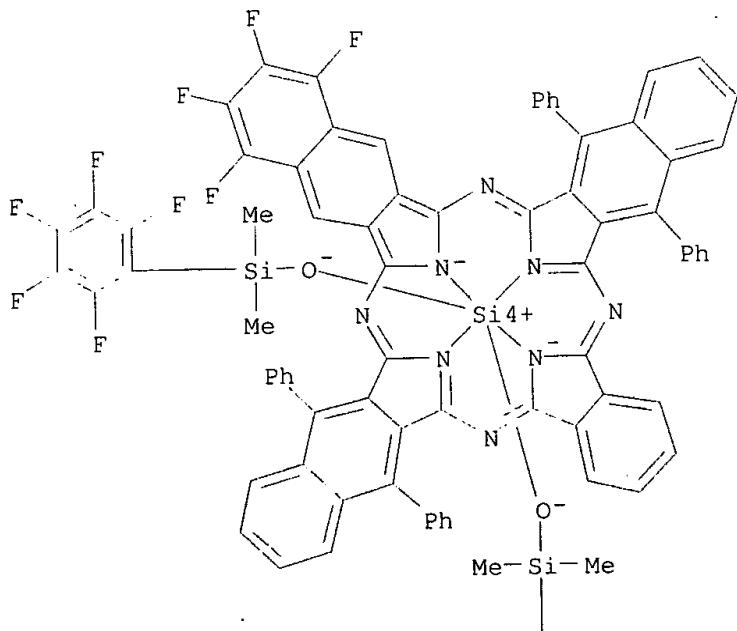
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RN 183872-61-9 HCAPLUS  
CN Silicon, bis(dimethyl-7-octenylsilanolato)[1,2,3,4-tetrafluoro-9,14,25,30-tetr phenyl-35H,37H-benzo[b]trinaphtho[2,3-g:2',3'-l:2'',3''-q]porphyrazinato(2-).kappa.N35,.kappa.N36,.kappa.N37,.kappa.N38]-,(OC-6-12)- (9CI) (CA INDEX NAME)

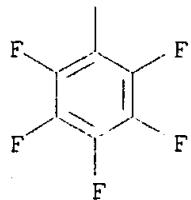


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RN 183872-62-0 HCPLUS  
CN Silicon, bis[dimethyl(pentafluorophenyl)silanolato-.kappa.O][1,2,3,4-tetrafluoro-9,14,25,30-tetr phenyl-35H,37H-benzo[b]trinaphtho[2,3-g:2',3'-1:2'',3''-q]porphyrinato(2-).kappa.N35,.kappa.N36,.kappa.N37,.kappa.N38]-, (OC-6-12)- (9CI) (CA INDEX NAME)



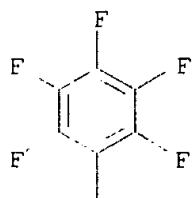
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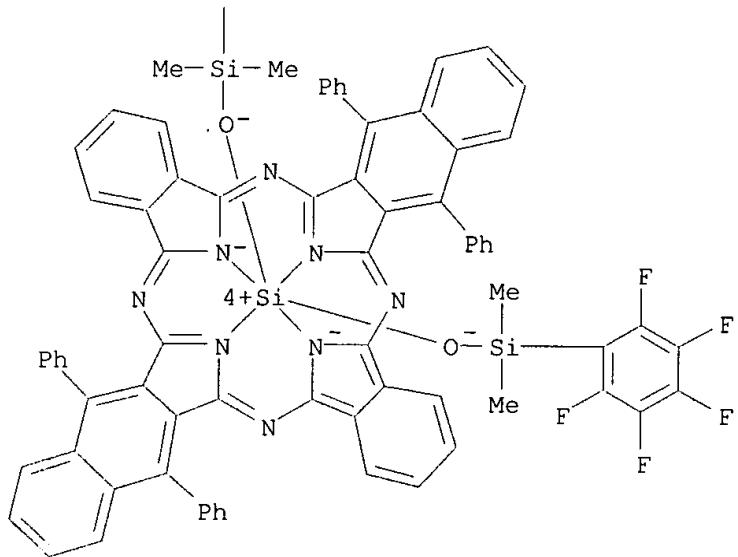


RN 183872-63-1 HCAPLUS

CN Silicon, bis[dimethyl(pentafluorophenyl)silanolato-.kappa.O][8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,l]dinaphtho[2,3-g:2',3'-g]porphyrizinato(2-).kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)

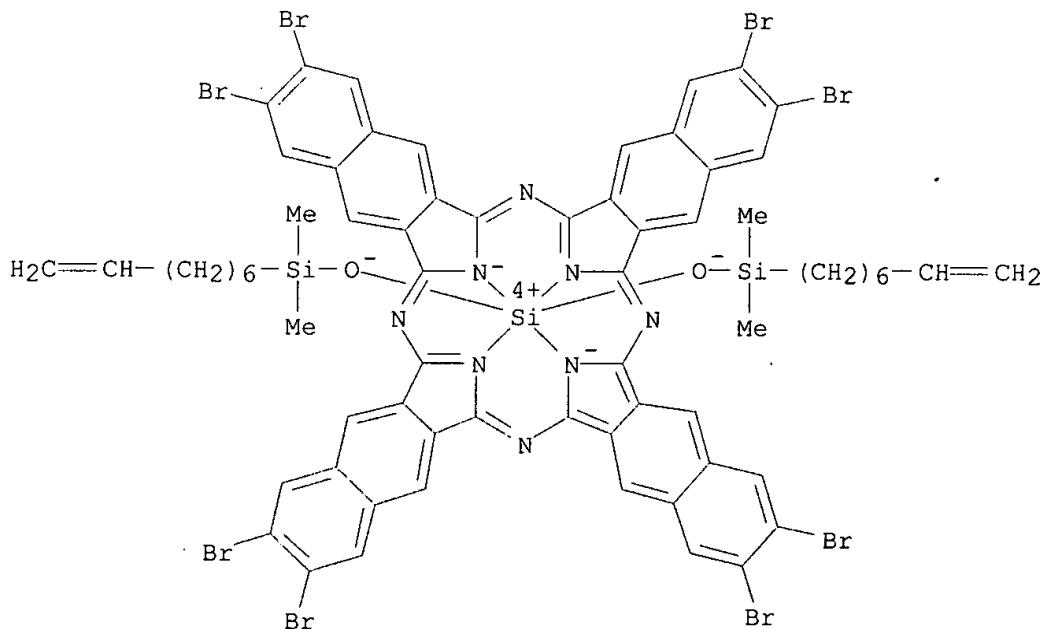
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RN 183872-66-4 HCPLUS

CN Silicon, bis(dimethyl-7-octenylsilanolato)[2,3,11,12,20,21,29,30-octabromo-37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)



RN 183872-71-1 HCPLUS

CN Silicon, (dimethyl-7-octenylsilanolato)[1,4,17,20-tetraphenyl-33H,35H-dibenzo[b,l]dinaphtho[2,3-g,2',3'-q]porphyrazinato(2-)-

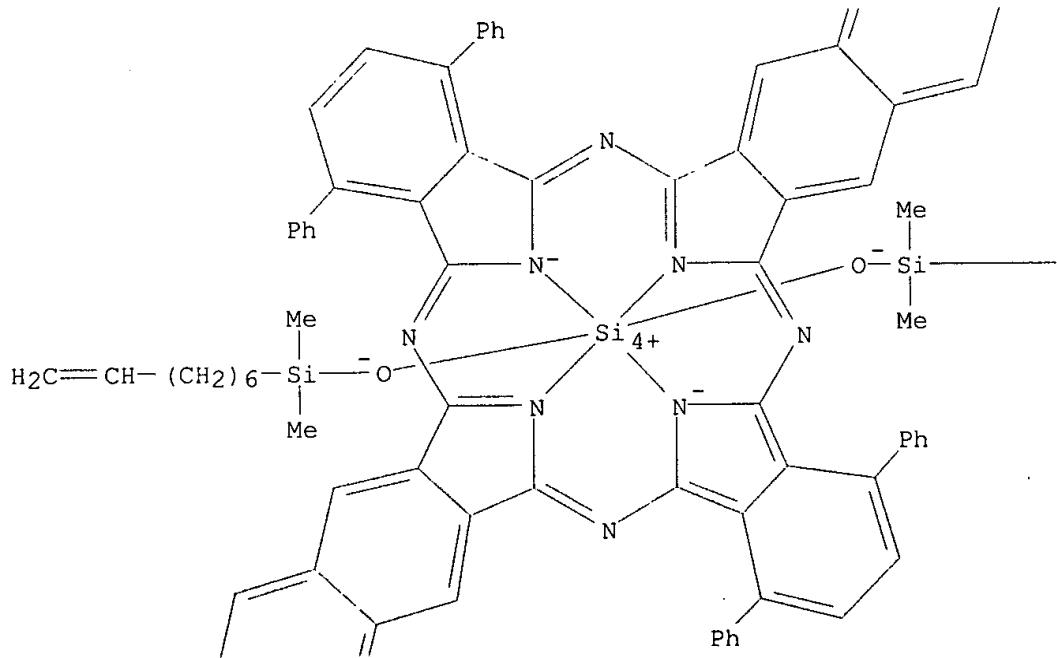
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.kappa.N33, .kappa.N34, .kappa.N35, .kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX  
NAME)

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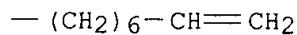


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Search completed by David Schreiber 308-4292

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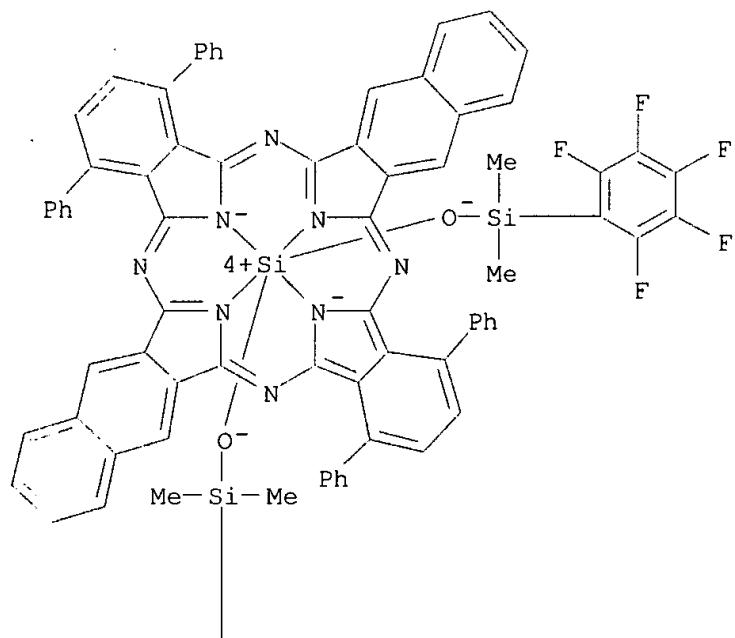


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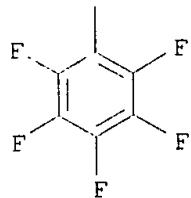


RN 183872-72-2 HCPLUS  
CN Silicon, bis[dimethyl(pentafluorophenyl)silanolato-.kappa.O][1,4,17,20-tetraphenyl-33H,35H-dibenzo[b,l]dinaphtho[2,3-g,2',3'-q]porphyrizinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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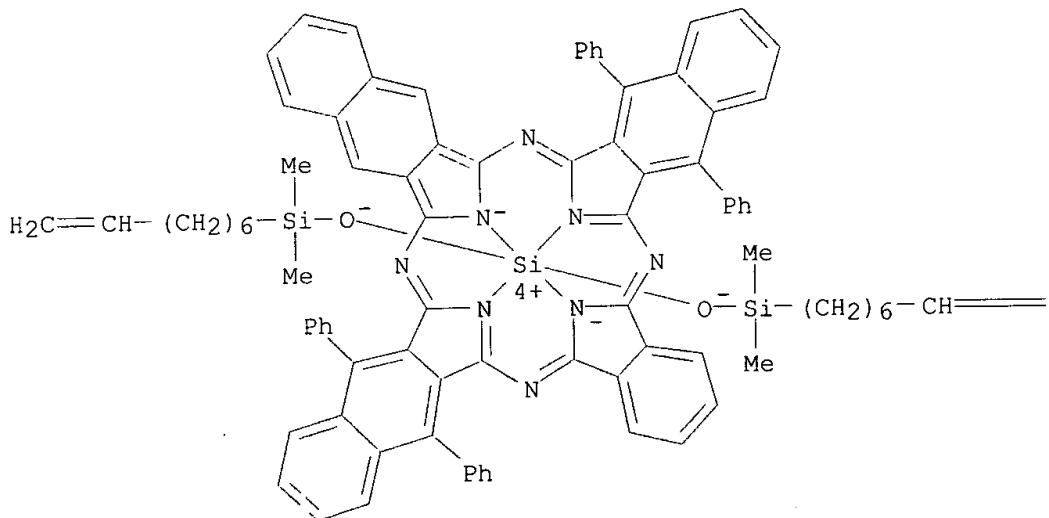


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RN 183872-74-4 HCAPLUS  
CN Silicon, bis(dimethyl-7-octenylsilanolato)[9,14,25,30-tetraphenyl-35H,37H-  
benzo[b]trinaphtho[2,3-g:2',3'-l:2'',3''-q]porphyrzinato(2-)-  
.kappa.N35,.kappa.N36,.kappa.N37,.kappa.N38]-, (OC-6-12)- (9CI) (CA INDEX  
NAME)

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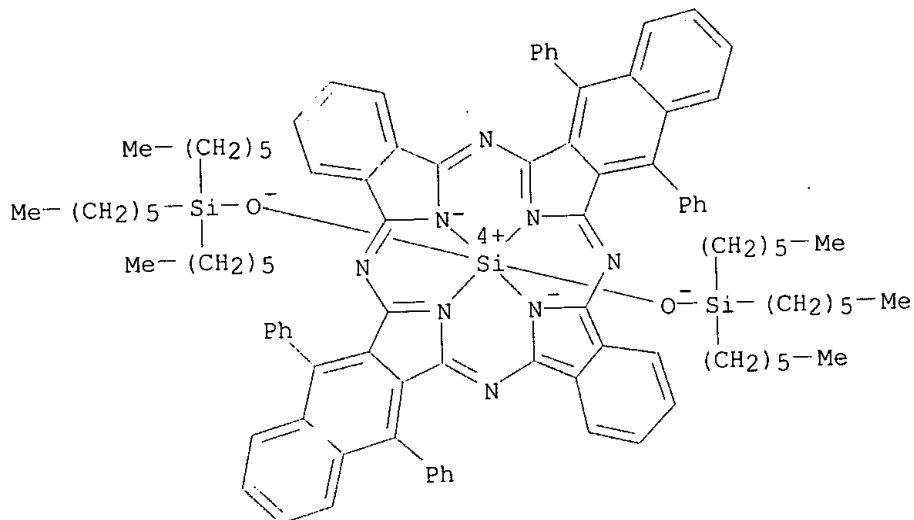


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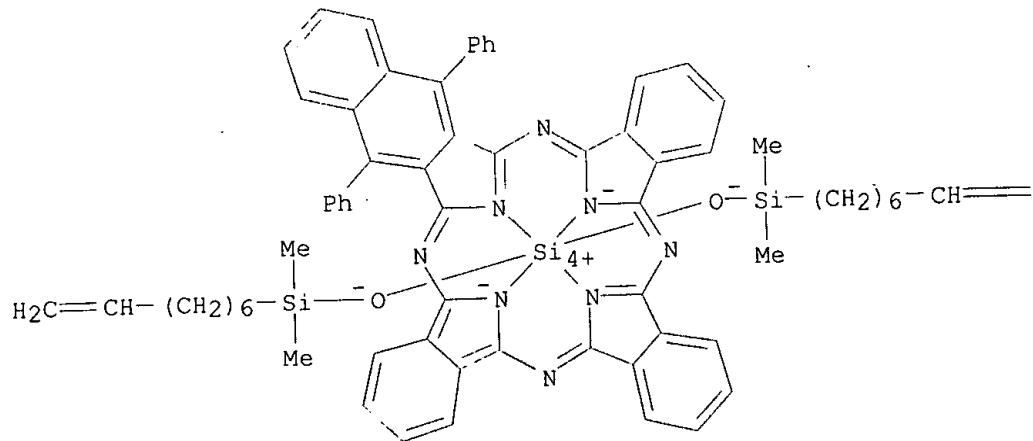
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RN 183872-76-6 HCPLUS  
CN Silicon, [8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrzinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]bis(trimethylsilyl)octylsilanolato)-, (OC-6-12)- (9CI) (CA INDEX NAME)



RN 183872-77-7 HCPLUS  
CN Silicon, bis(dimethyl-7-octenylsilanolato)[22,27-diphenyl-31H,33H-tribenzo[b,g,1]naphtho[2,3-q]porphyrzinato(2-)-.kappa.N31,.kappa.N32,.kappa.N33,.kappa.N34]-, (OC-6-13)- (9CI) (CA INDEX NAME)

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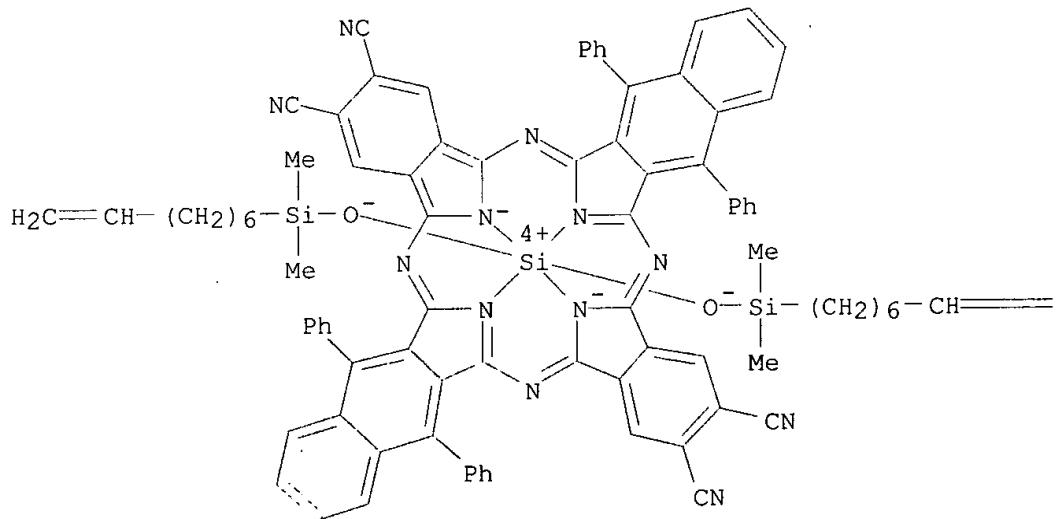


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RN 183872-79-9 HCAPLUS  
CN Silicon, bis(dimethyl-7-octenylsilanolato)[8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,l]dinaphtho[2,3-g:2',3'-q]porphyrazine-2,3,18,19-tetracarbonitrilato(2-).kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-,(OC-6-12)-(9CI) (CA INDEX NAME)

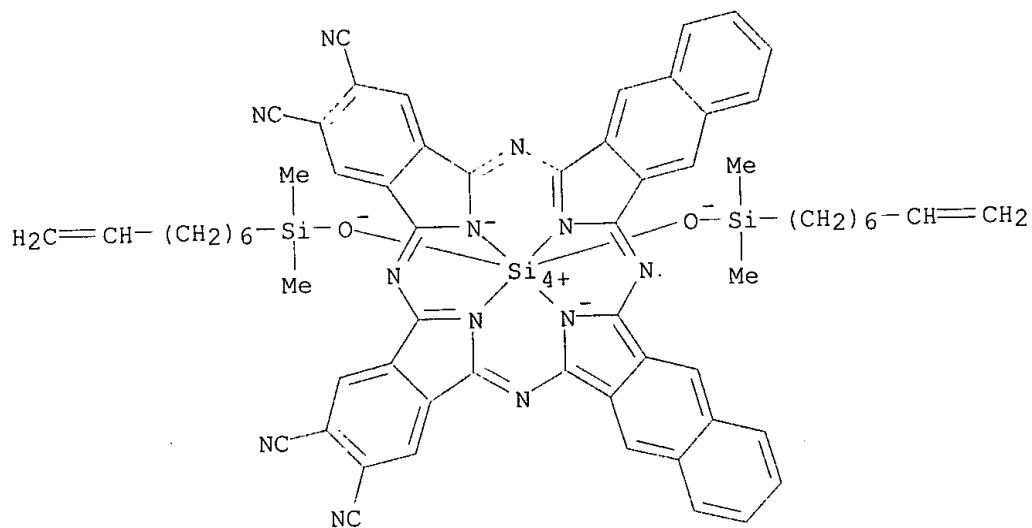
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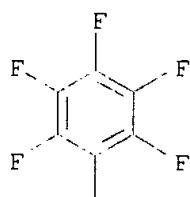
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RN 183872-81-3 HCPLUS  
CN Silicon, bis(dimethyl-7-octenylsilanolato)[33H, 35H-  
dibenzo[b,g]dinaphtho[2',3'-1:2'',3''-q]porphyrazine-10,11,17,18-  
tetracarbonitrilato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-,  
(OC-6-13)- (9CI) (CA INDEX NAME)

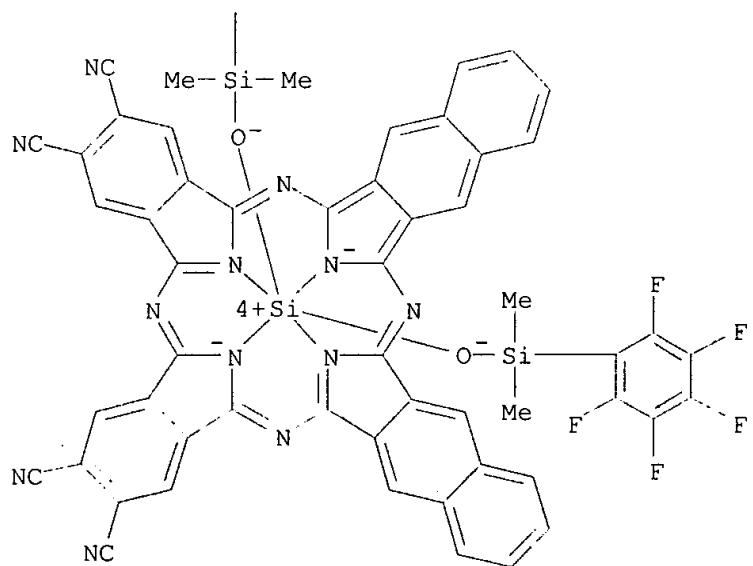


RN 183872-82-4 HCPLUS  
CN Silicon, bis[dimethyl(pentafluorophenyl)silanolate-.kappa.O][33H, 35H-  
dibenzo[b,g]dinaphtho[2',3'-1:2'',3''-q]porphyrazine-10,11,17,18-  
tetracarbonitrilato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-,  
(OC-6-13)- (9CI) (CA INDEX NAME)

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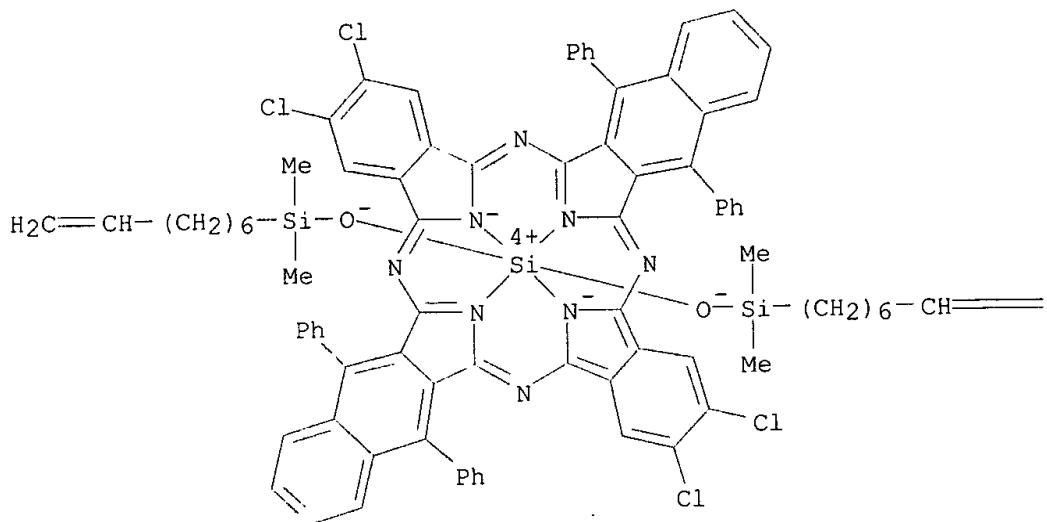
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RN 183872-84-6 HCAPLUS

CN Silicon, bis(dimethyl-7-octenylsilanolate)[2,3,18,19-tetrachloro-8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,l]dinaphtho[2,3-g:2',3'-q]porphyrazinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-,(OC-6-12)-(9CI) (CA INDEX NAME)

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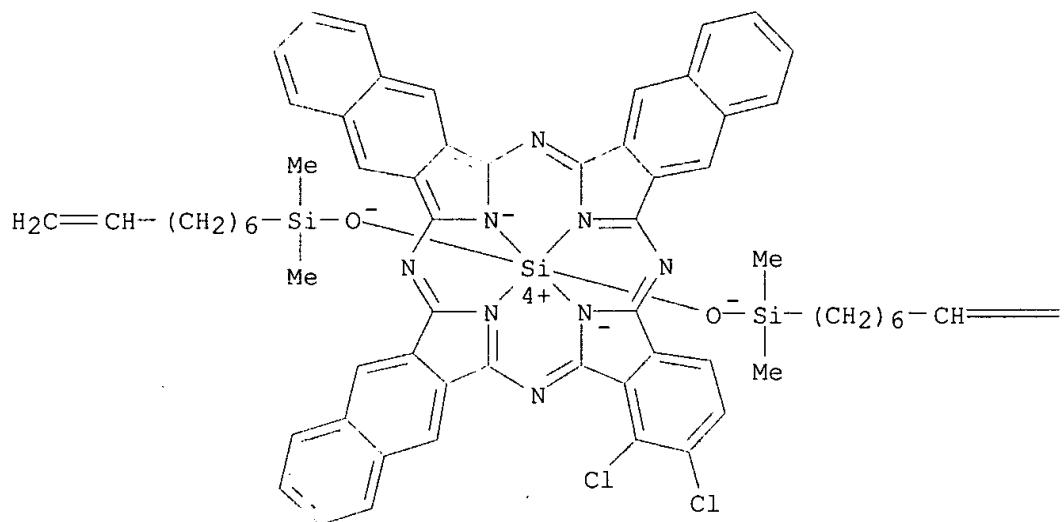


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RN 183872-94-8 HCAPLUS  
CN Silicon, [18,19-dichloro-35H,37H-benzo[b]trinaphtho[2,3-g:2',3'-l:2'',3''-q]porphyrzinato(2-)-.kappa.N35,.kappa.N36,.kappa.N37,.kappa.N38]bis(dimethyl-7-octenylsilanolato)-, (OC-6-13)- (9CI) (CA INDEX NAME)

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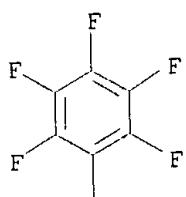
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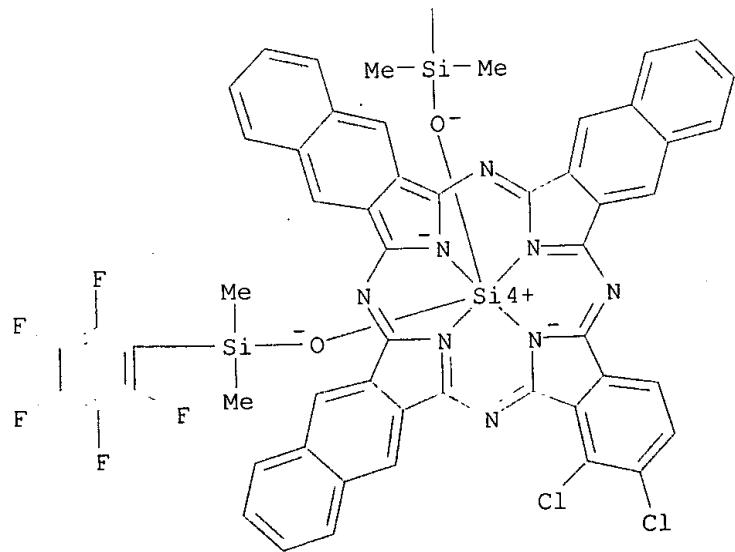
CN Silicon, [18,19-dichloro-35H,37H-benzo[b]trinaphtho[2,3-g:2',3'-1:2'',3''-q]porphyrazinato(2-)-.kappa.N35,.kappa.N36,.kappa.N37,.kappa.N38]bis[dimethyl(pentafluorophenyl)silanolato-.kappa.O]-, (OC-6-13)- (9CI) (CA INDEX NAME)

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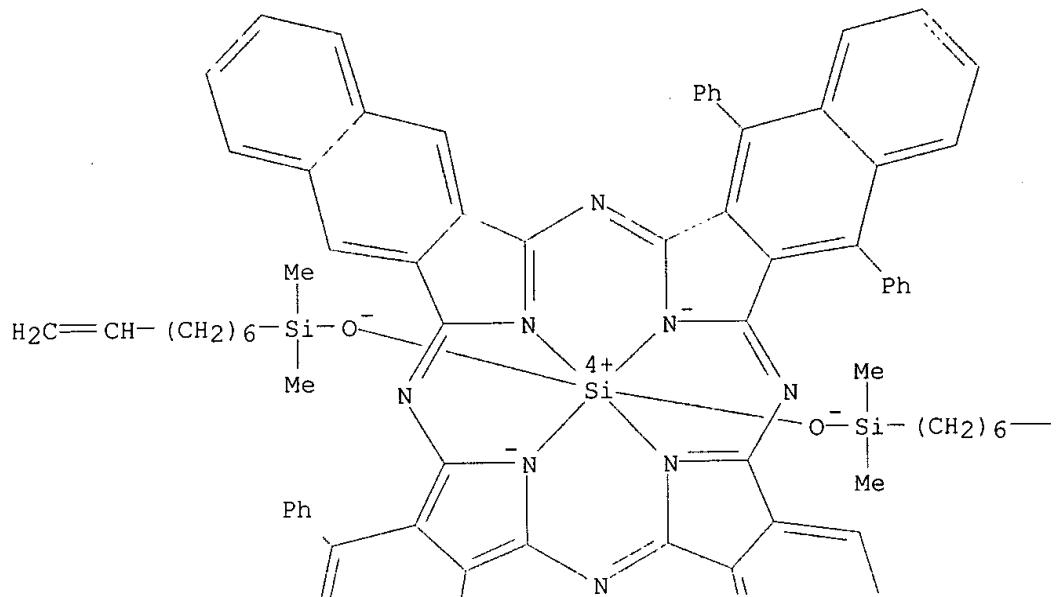
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RN 183872-96-0 HCAPLUS  
CN Silicon, bis(dimethyl-7-octenylsilanolate)[5,18,23,36-tetraphenyl-37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2'',3'''-q]porphyrzinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

Search completed by David Schreiber 308-4292

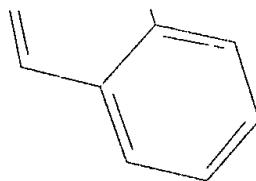
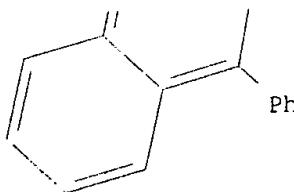
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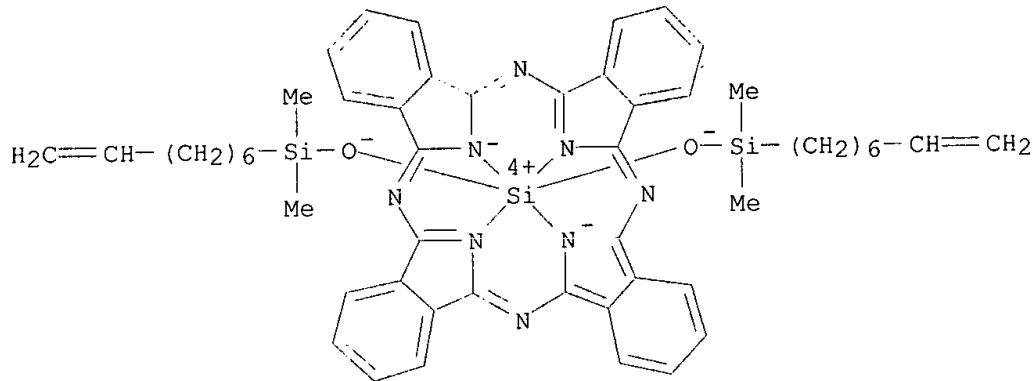
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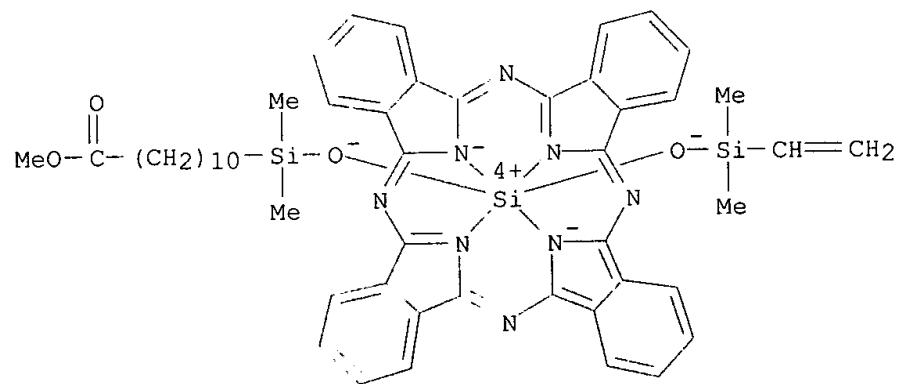
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RN 183872-98-2 HCPLUS  
CN Silicon, bis(dimethyl-7-octenylsilanolato)[29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (OC-6-12)- (9CI) (CA INDEX NAME)



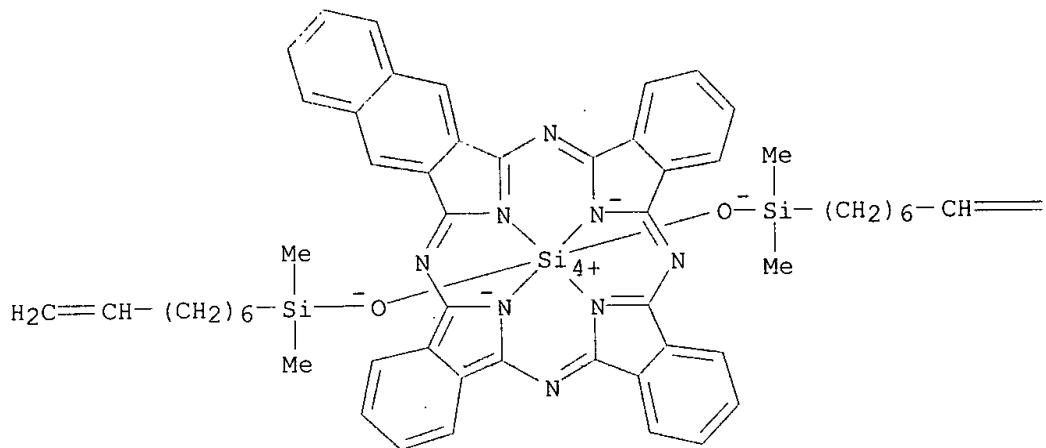
RN 183872-99-3 HCPLUS  
CN Silicon, bis(ethenyldimethylsilanolato)[29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (OC-6-23)- (9CI) (CA INDEX NAME)



RN 183873-03-2 HCPLUS  
CN Silicon, bis(dimethyl-7-octenylsilanolato)[31H,33H-tribenzo[b,g,l]naphtho[2,3-q]porphyrzinato(2-)-.kappa.N31,.kappa.N32,.kappa.N33,.kappa.N34]-, (OC-6-13)- (9CI) (CA INDEX)

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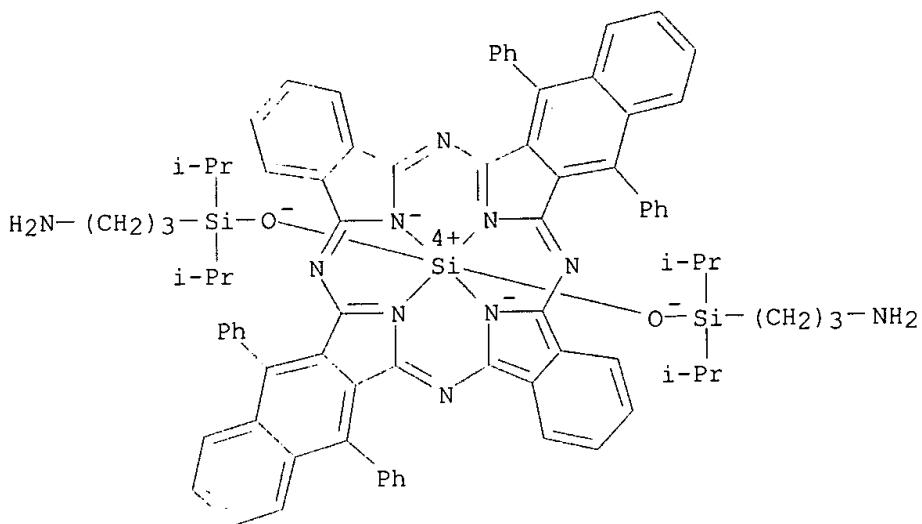


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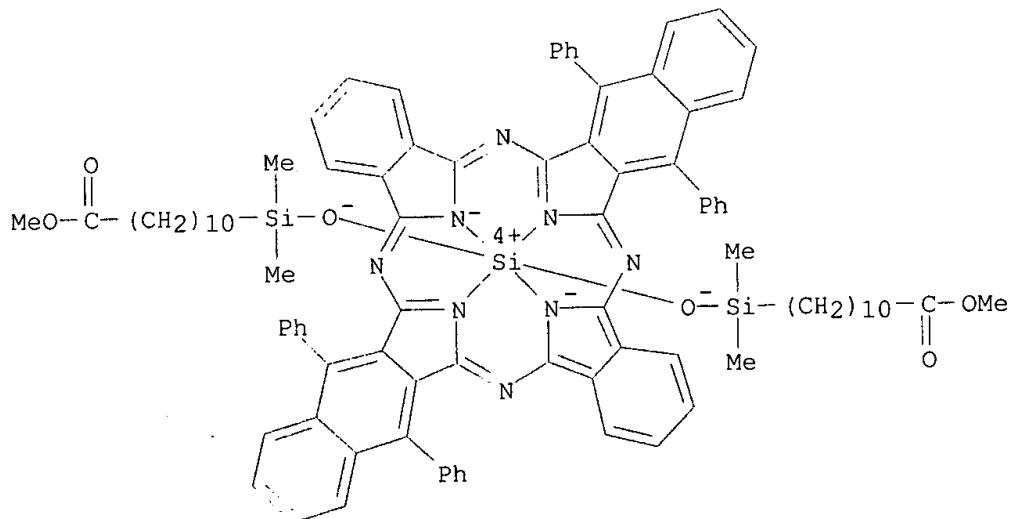
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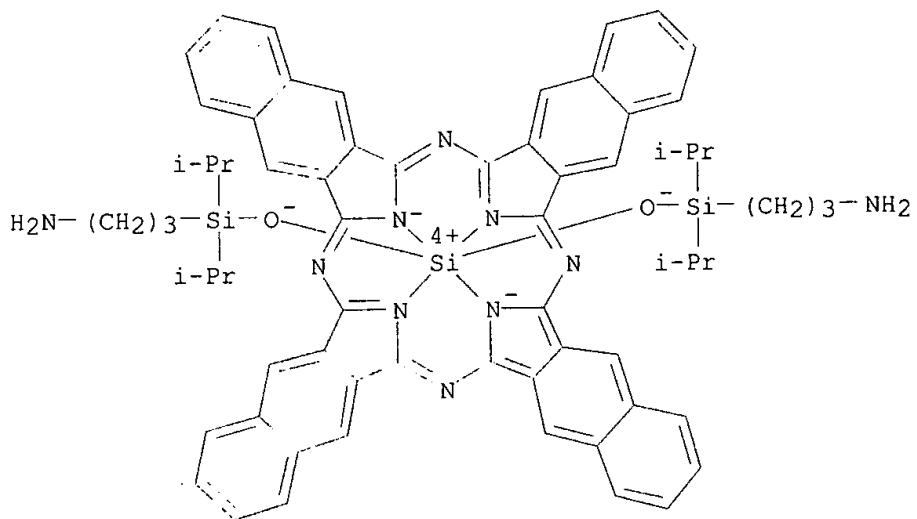
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RN 183873-13-4 HCAPLUS  
CN Silicon, bis[methyl 11-[(hydroxy-.kappa.O)dimethylsilyl]unadecanoato][8,13-,24,29-tetraphenyl-33H,35H-dibenzo[b,l]dinaphtho[2,3-g:2',3'-q]porphyrazinato(2-).kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)

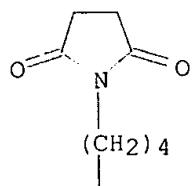


RN 183873-14-5 HCAPLUS  
CN Silicon, bis[(3-aminopropyl)bis(1-methylethyl)silanolato-.kappa.O][37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2'',3'''-q]porphyrazinato(2-).kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

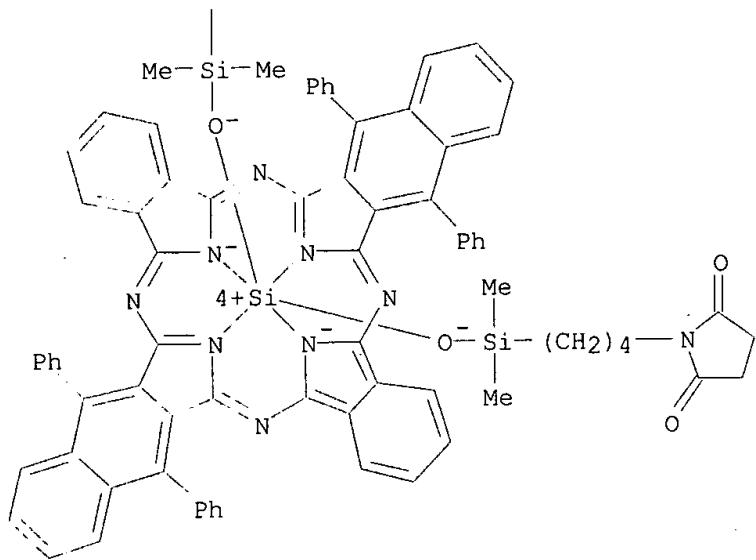


RN 183873-15-6 HCPLUS  
CN Silicon, bis[1-[4-[ (hydroxy-.kappa.O)dimethylsilyl]butyl]-2,5-pyrrolidinedionato] [8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,l]dinaphtho[2,3-g:2',3'-q]porphyrazinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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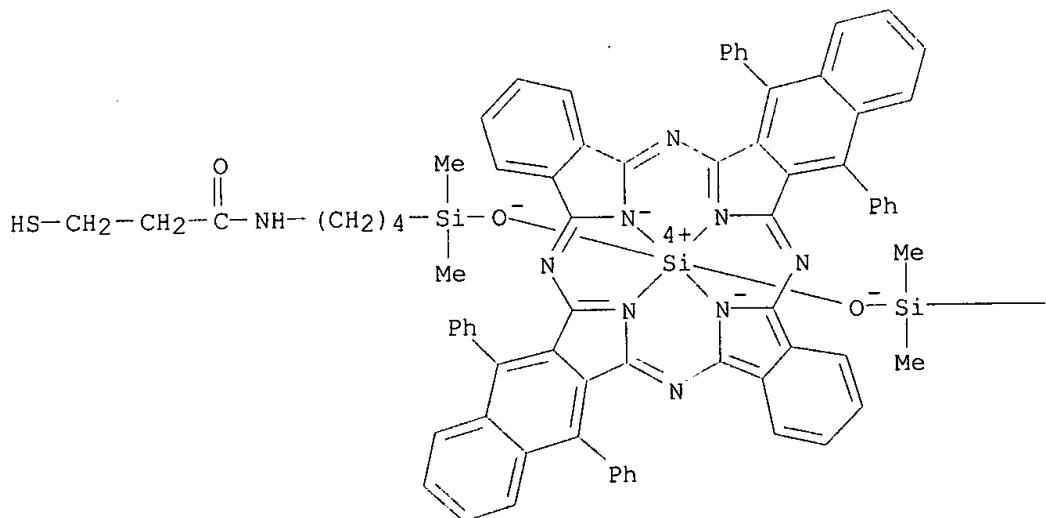


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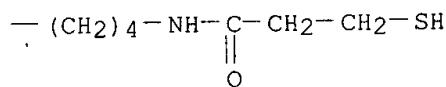


RN 183873-17-8 HCAPLUS  
CN Silicon, bis[N-[4-[ (hydroxy-.kappa.O)dimethylsilyl]butyl]-3-mercaptopropanoato] [8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,l]dinaphtho[2,3-g:2',3'-q]porphyrzinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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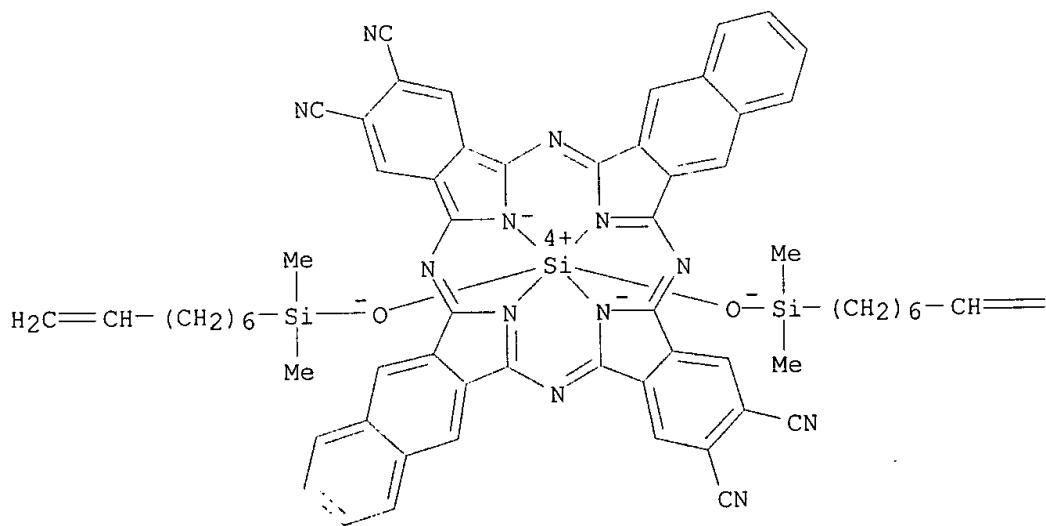


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RN 183873-19-0 HCAPLUS  
CN Silicon, [33H, 35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrazine-  
2,3,18,19-tetracarbonitrilato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.  
N36]bis(dimethyl-7-octenylsilanolato)-, (OC-6-12)- (9CI) (CA INDEX NAME)

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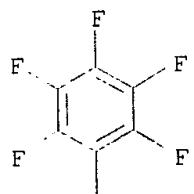
Epperson 09/776,599

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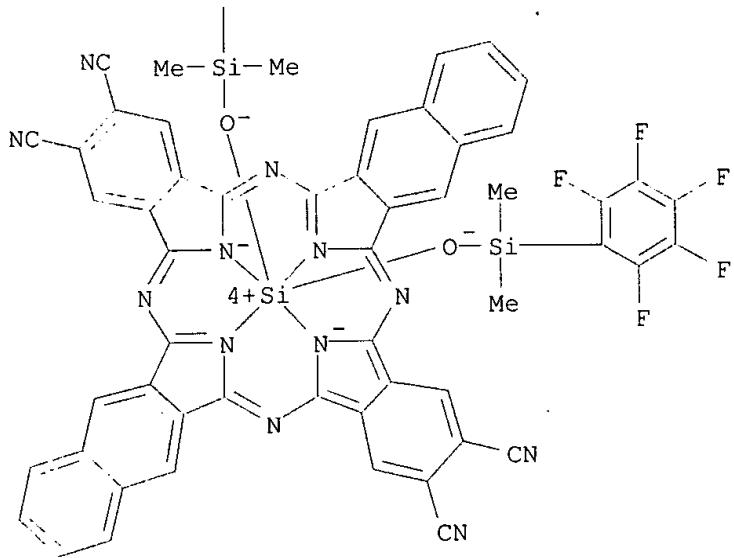
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RN 183873-20-3 HCPLUS  
CN Silicon, [33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrazine-  
2,3,18,19-tetracarbonitrilato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.  
N36]bis[dimethyl(pentafluorophenyl)silanolato-.kappa.O]-, (OC-6-12)- (9CI)  
(CA INDEX NAME)

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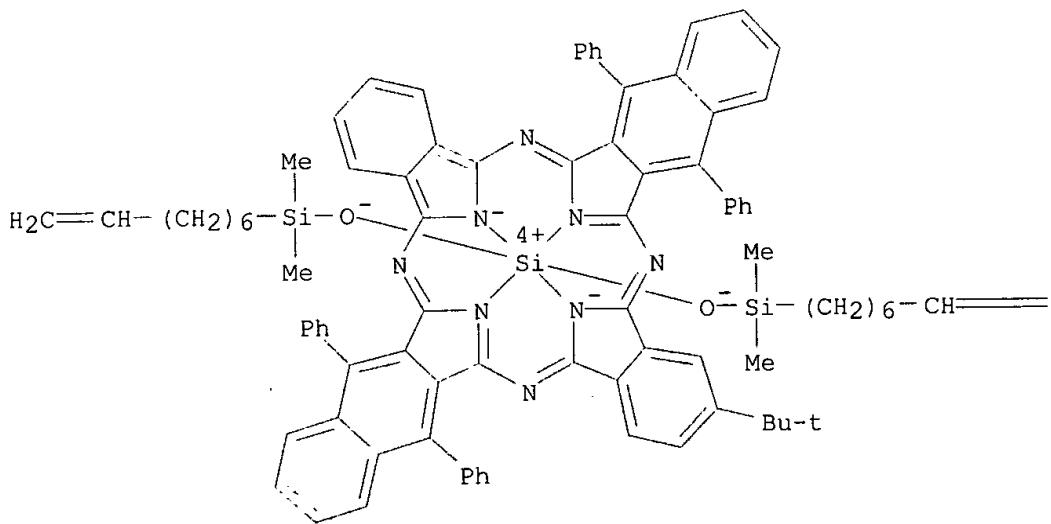


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RN 183973-58-2 HCAPLUS  
CN Silicon, [2,18(or 2,19)-bis(1,1-dimethylethyl)-8,13,24,29-tetraphenyl-  
33H,35H-dibenzo[b,1]dinaphtho[2,3-g:2',3'-q]porphyrinato(2-)  
.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]bis(dimethyl-7-  
octenylsilanolate)- (9CI) (CA INDEX NAME)

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D1-Bu-t

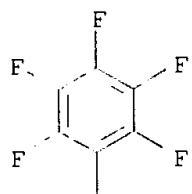
Epperson 09/776,599

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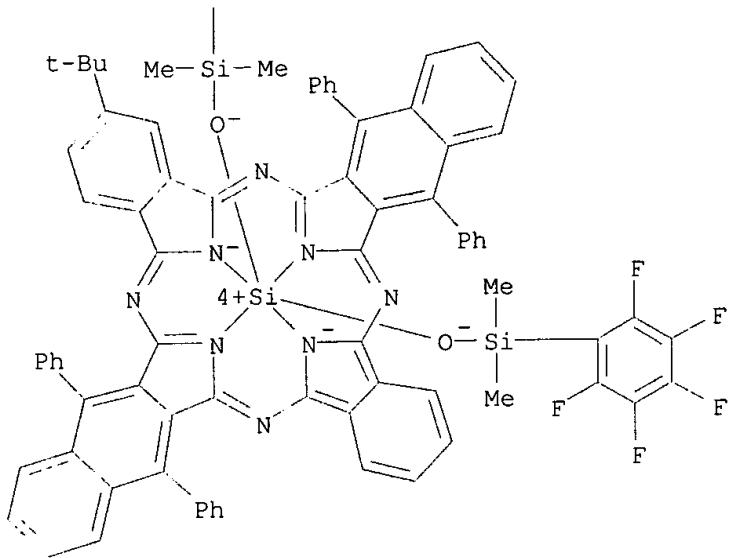
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RN 183973-60-6 HCPLUS  
CN Silicon, [2,18(or 2,19)-bis(1,1-dimethylethyl)-8,13,24,29-tetraphenyl-  
33H,35H-dibenzo[b,l]dinaphtho[2,3-g:2',3'-g]porphyrazinato(2-)-  
.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]bis[dimethyl(pentafluorophenyl)  
)silanolato-.kappa.O]- (9CI) (CA INDEX NAME)

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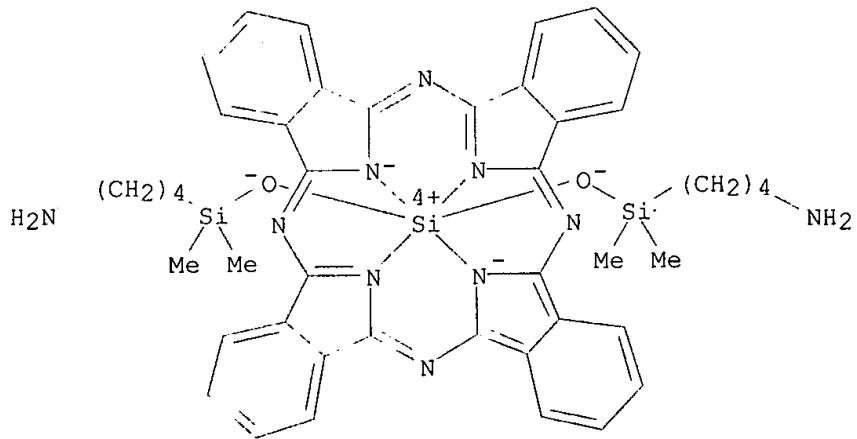
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D1—Bu-t

RN 184013-80-7 HCAPLUS  
CN Silicon, bis[(4-aminobutyl)dimethylsilyl]o-.kappa.O] [C,C,C,C-  
tetrakis(1,1-dimethylethyl)-29H,31H-phthalocyaninato(2-)-  
.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]- (9CI) (CA INDEX NAME)



4 ( D1—Bu-t )

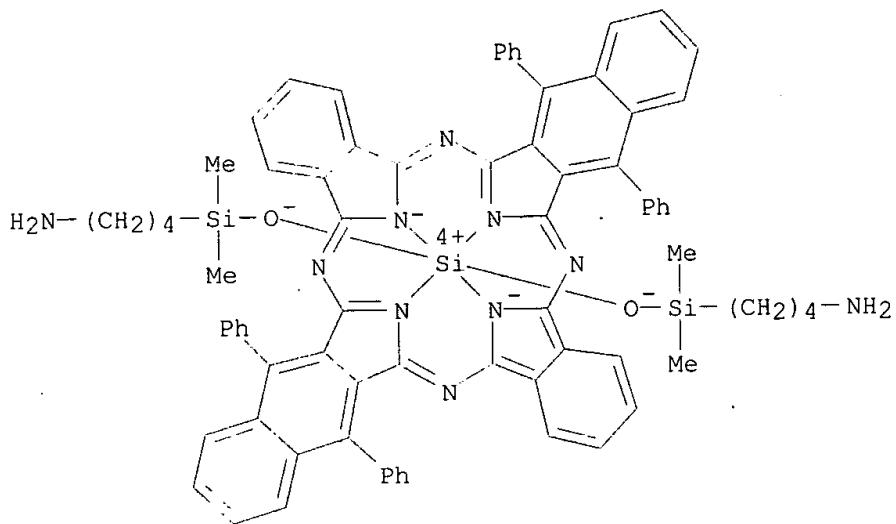
IT 183873-09-8DP, sulfonated 183873-16-7DP, sulfonated  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT

(Reactant or reagent)

(prep. of water-sol. fluorescent hybrid phthalocyanine derivs. for  
immunoassays)

RN 183873-09-8 HCAPLUS

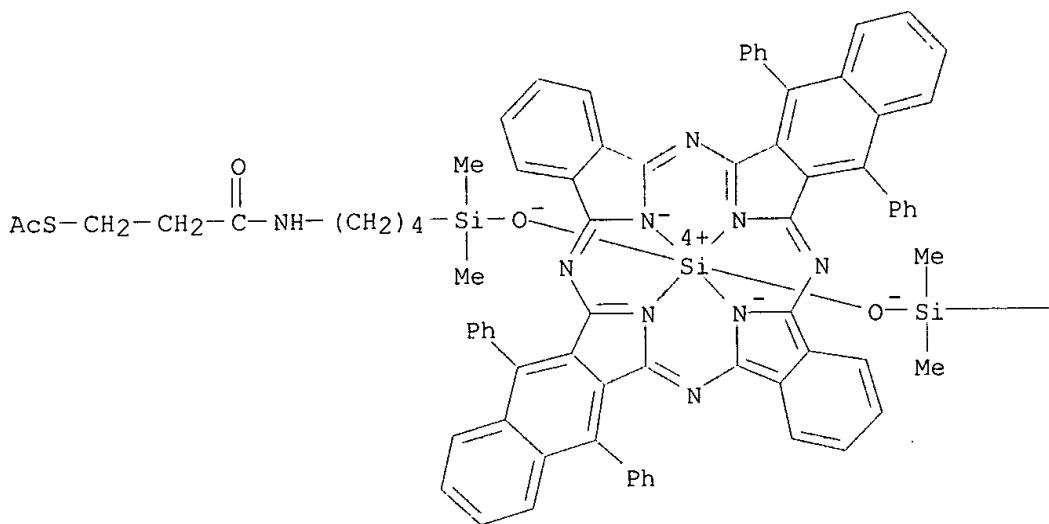
CN Silicon, bis[(4-aminobutyl)dimethylsilanolato-.kappa.O][8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,l]dinaphtho[2,3-g:2',3'-q]porphyrzinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)



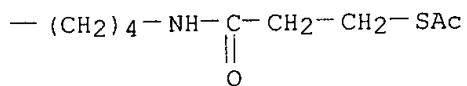
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CN Silicon, bis[S-[3-[[4-[(hydroxy-.kappa.O)dimethylsilyl]butyl]amino]-3-oxopropyl] ethanethioato][8,13,24,29-tetraphenyl-33H,35H-dibenzo[b,l]dinaphtho[2,3-g:2',3'-q]porphyrzinato(2-)-.kappa.N33,.kappa.N34,.kappa.N35,.kappa.N36]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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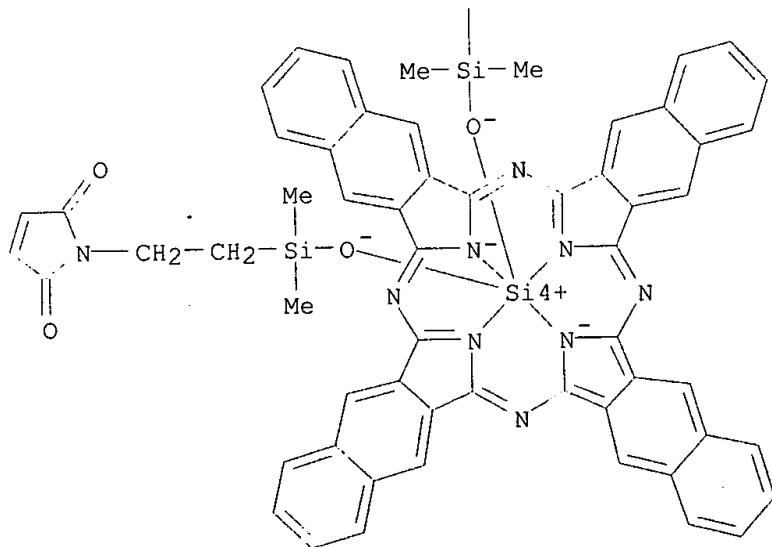
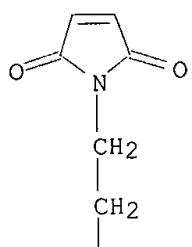


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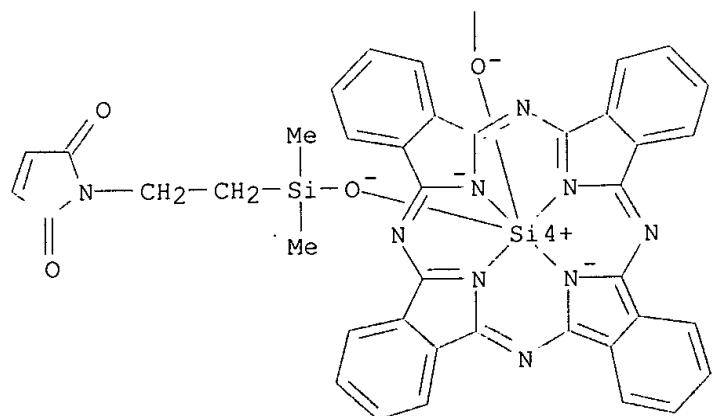
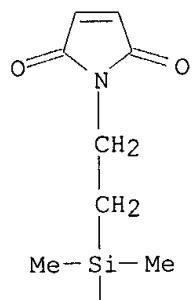


L31 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 1995:623505 HCAPLUS  
 DOCUMENT NUMBER: 124:4485  
 TITLE: Fluorescence energy transfer and intramolecular energy transfer in particles using novel compounds  
 INVENTOR(S): Buechler, Kenneth Francis; Noar, Joseph  
 Barry; Tadesse, Lema  
 PATENT ASSIGNEE(S): Biosite Diagnostics Inc., USA  
 SOURCE: PCT Int. Appl., 138 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 7  
 PATENT INFORMATION:

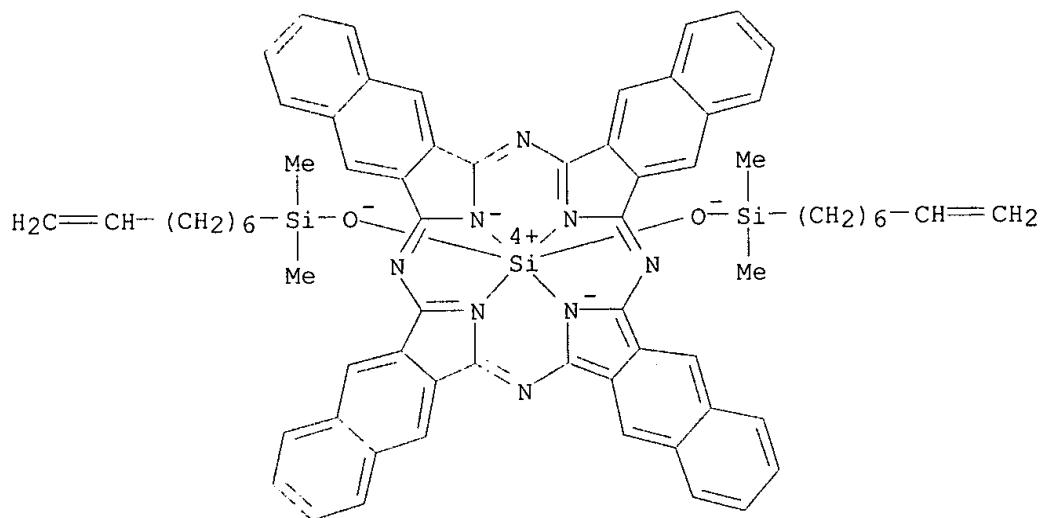
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9508772	A1	19950330	WO 1994-US10826	19940923
W: AU, CA, JP RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6238931	B1	20010529	US 1994-274534	19940712
AU 9480112	A1	19950410	AU 1994-80112	19940923
EP 670041	A1	19950906	EP 1994-931287	19940923
EP 670041	B1	20020130	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE	
JP 08503994	T2	19960430	JP 1994-509970	19940923
AT 212721	E	20020215	AT 1994-931287	19950330
US 2002061602	A1	20020523	US 2001-776599	20010201
PRIORITY APPLN. INFO.:				
			US 1993-126367 A	19930924
			US 1993-138708 A	19931018
			US 1994-274534 A	19940712
			US 1994-311098 A2	19940923
			WO 1994-US10826 W	19940923
			US 1995-409298 A2	19950323
			US 1995-409825 B2	19950323
			US 1996-620597 A1	19960322
			US 1998-66255 A2	19980424
AB	Particles and methods are disclosed for the detection or visualization of analytes, including nucleic acids by using fluorescence energy transfer or intramol. energy transfer. Particles comprising an energy donor as a first component and a fluorescent dye as a second component positioned in said particles at an energy exchanging distance from one another, wherein the two components have a Stokes shift of .gtoreq.50 nm, said particle having bound on its surface, a protein, polypeptide, nucleic acid, nucleotide or protein contg. ligand analog are disclosed and claimed. In addn., novel fluorescent dyes are described which exhibit intramol. energy transfer for use in labeling various mols., proteins, polypeptides, nucleotides and nucleic acids or incorporating into particles. Many novel phthalocyanine derivs. and hybrid phthalocyanine derivs. are disclosed and claimed. Such derivs. also may contain an electron transfer subunit. Axial ligands may be covalently bound to the metals contained in the hybrid phthalocyanine derivs. Numerous compds. capable of intramol. energy transfer as well as compds. for fluorescence energy transfer are claimed.			
IT	163968-86-3 163968-87-4 163968-88-5 163968-89-6 163968-91-0 163968-92-1 163968-93-2 163968-95-4			
	RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses) (fluorescence and intramol. energy transfer in particles for biochem. anal.)			
RN	163968-86-3 HCPLUS			
CN	Silicon, bis[1-[2-[ (hydroxy-.kappa.O)dimethylsilyl]ethyl]-1H-pyrrole-2,5-dionato][37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)			



RN 163968-87-4 HCPLUS  
CN Silicon, bis[1-[2-(hydroxydimethylsilyl)ethyl]-1H-pyrrole-2,5-dionato-  
O1][29H,31H-phthalocyaninato(2)-N29,N30,N31,N32]-, (OC-6-12)- (9CI) (CA  
INDEX NAME)



RN 163968-88-5 HCAPLUS  
CN Silicon, bis(dimethyl-7-octenylsilyl)bis[37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrazinato(2)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

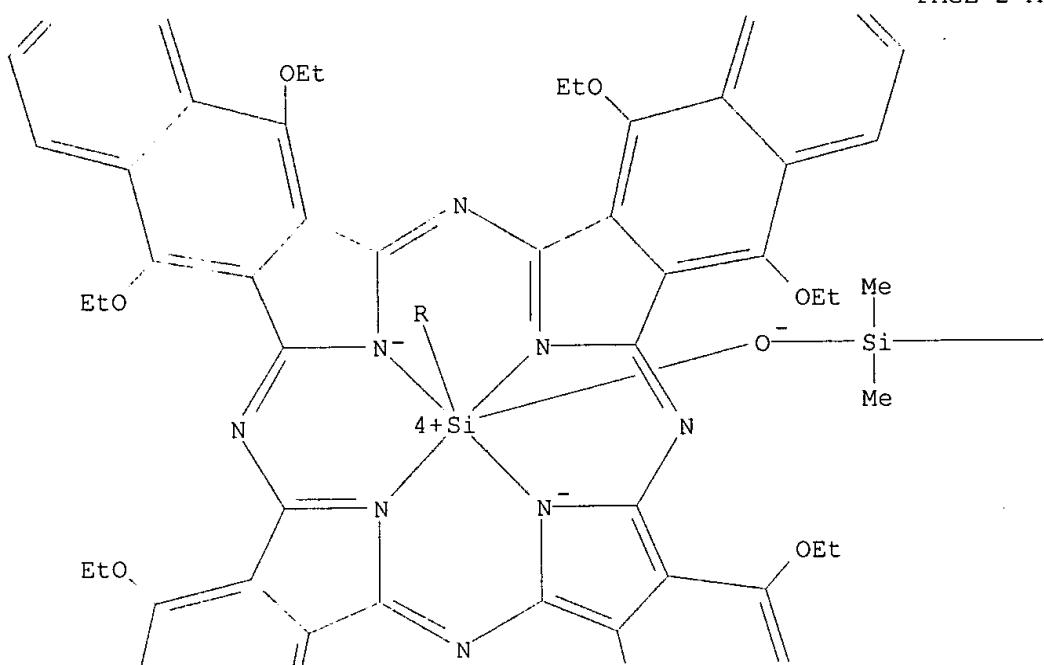


RN 163968-89-6 HCAPLUS

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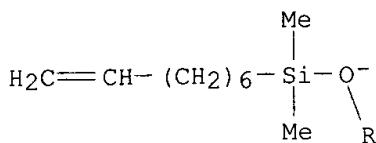
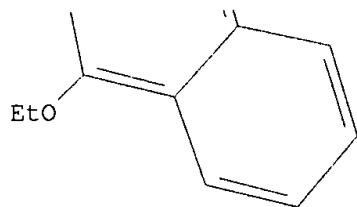
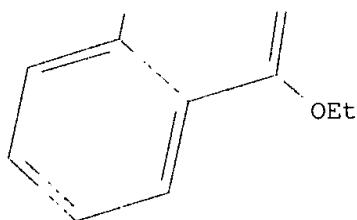
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PAGE 2-A

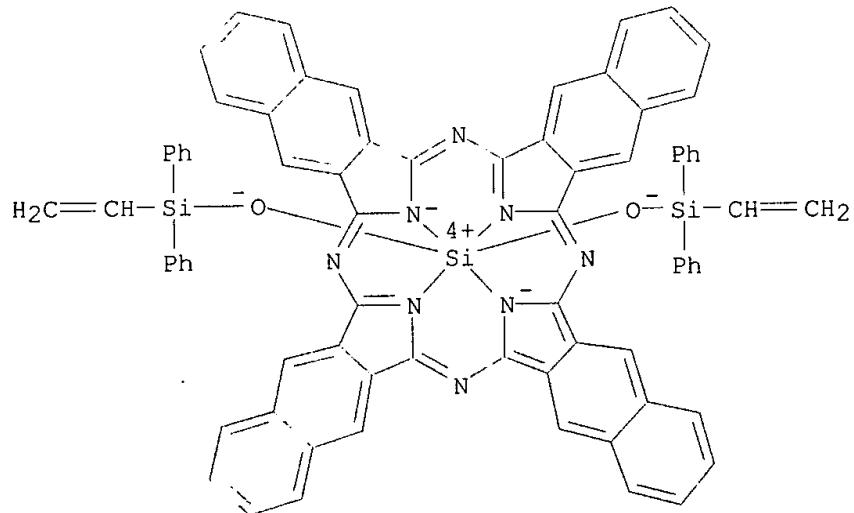


PAGE 2-B

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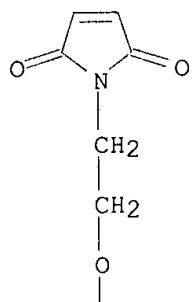


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CN Silicon, bis(ethenylidiphenylsilanolate) [37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrzinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

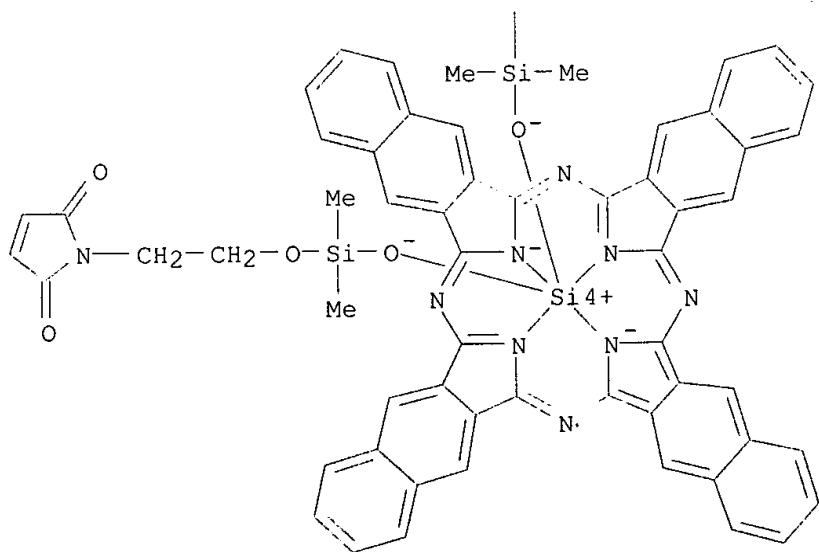


RN 163968-92-1 HCAPLUS  
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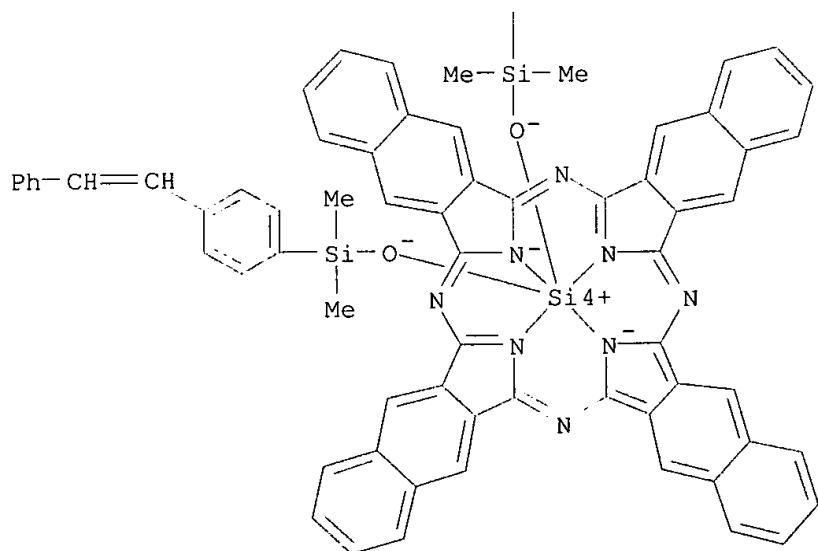
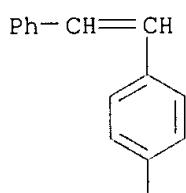
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RN 163968-93-2 HCAPLUS  
CN Silicon, bis[dimethyl[4-(2-phenylethenyl)phenyl]silanolato][37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-1:2''',3'''-q]porphyrazinato(2--N37,N38,N39,N40)-, [OC-6-12-(E,E)]- (9CI) (CA INDEX NAME)

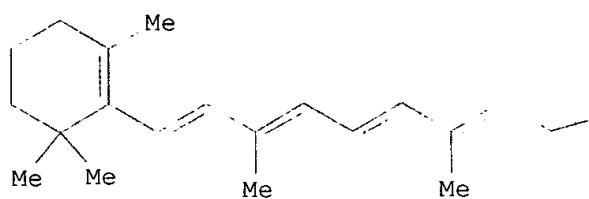


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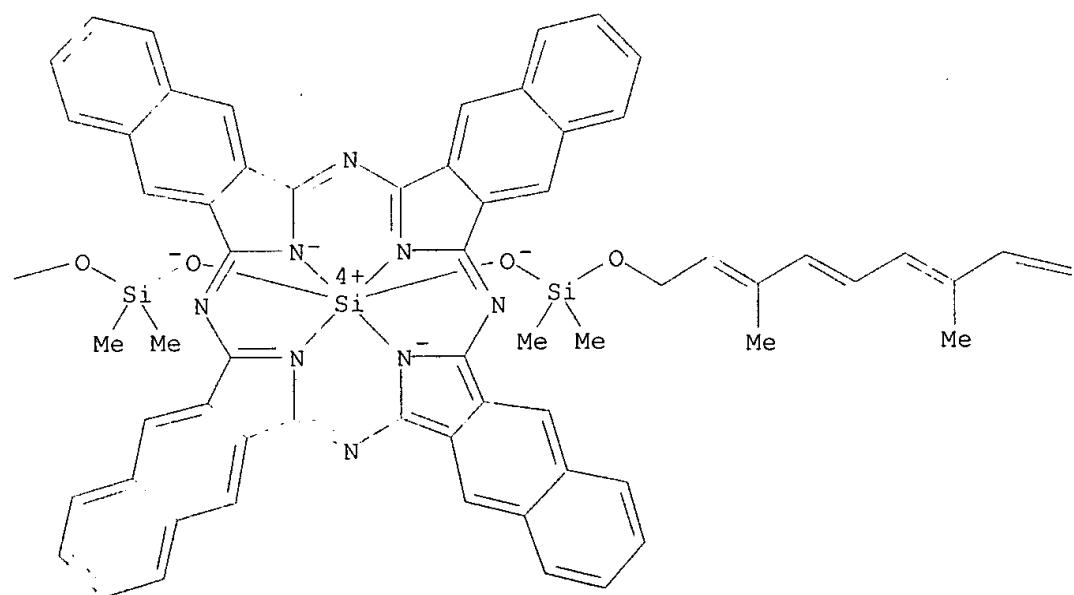
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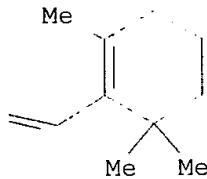
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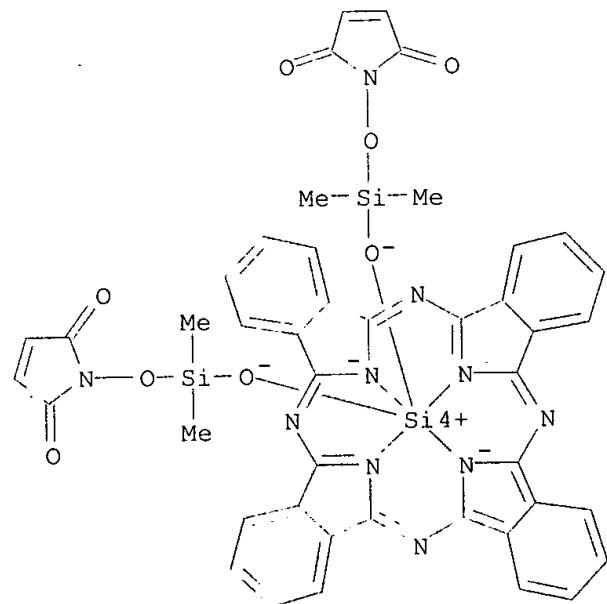


IT 163969-18-4

RL: ARG (Analytical reagent use); RCT (Reactant); ANST (Analytical study);  
RACT (Reactant or reagent); USES (Uses)  
(fluorescence and intramol. energy transfer in particles for biochem.  
anal.)

RN 163969-18-4 HCPLUS

CN Silicon, bis[1-[ (hydroxydimethylsilyl)oxy]-1H-pyrrole-2,5-dionato] [29H,31H-  
phthalocyaninato(2-) -N29,N30,N31,N32]-, (OC-6-12)- (9CI) (CA INDEX NAME)



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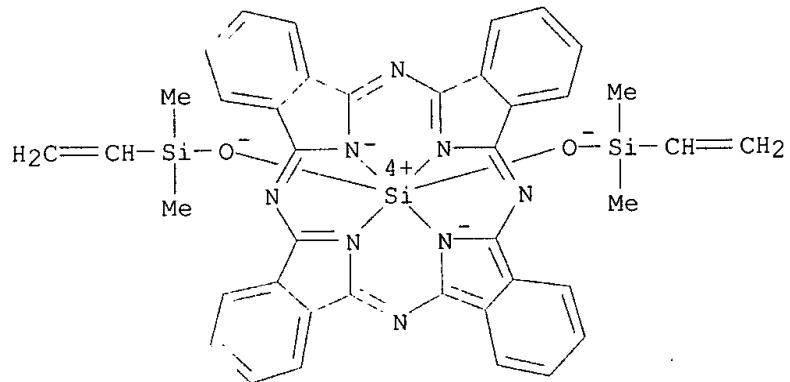
163969-10-6P 163969-11-7P 163969-15-1P

163969-25-3P

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST  
(Analytical study); PREP (Preparation); USES (Uses)  
(fluorescence and intramol. energy transfer in particles for biochem.  
anal.)

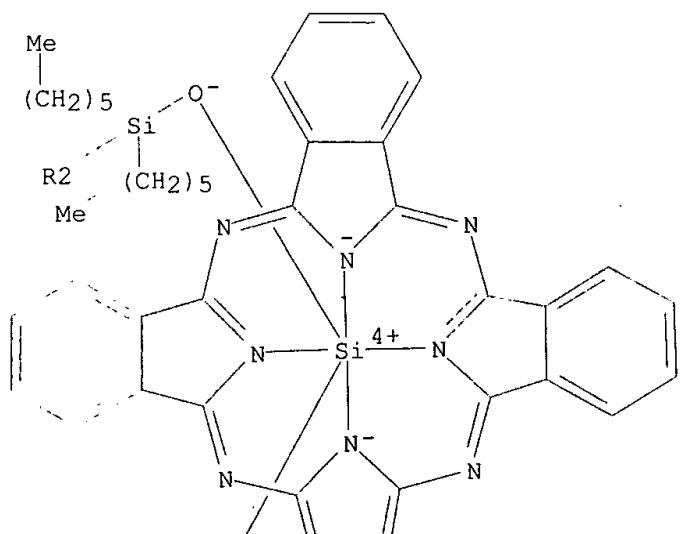
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RN 68812-20-4 HCAPLUS  
CN Silicon, bis(ethenyldimethylsilanolato)[29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (OC-6-12)- (9CI) (CA INDEX NAME)

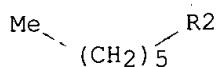
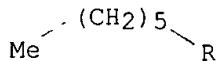
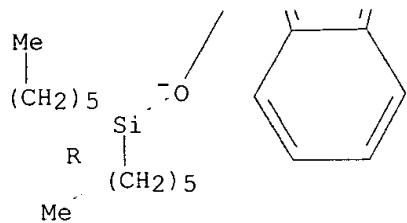


RN 92396-89-9 HCAPLUS  
CN Silicon, [29H,31H-phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]bis(trihexylsilanolato)-, (OC-6-12)- (9CI) (CA INDEX NAME)

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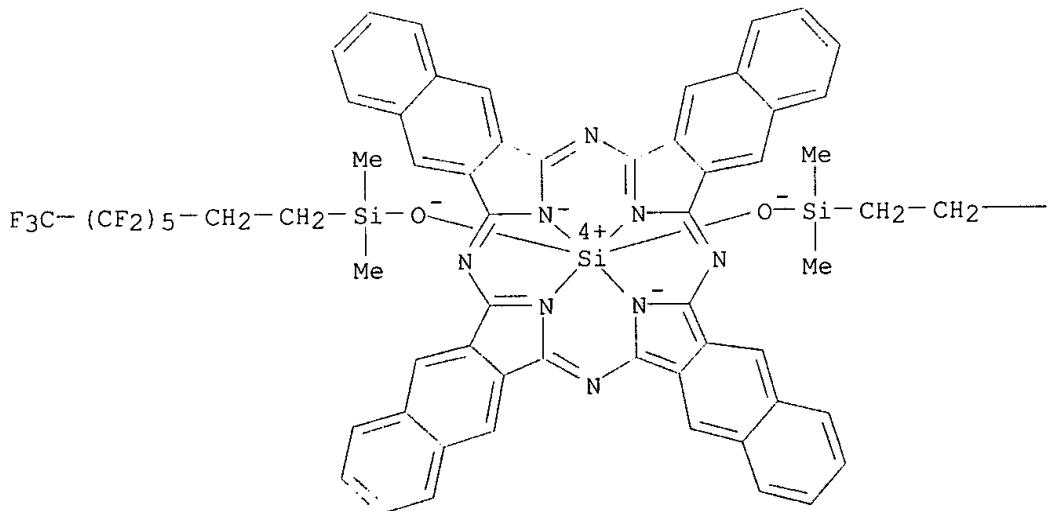


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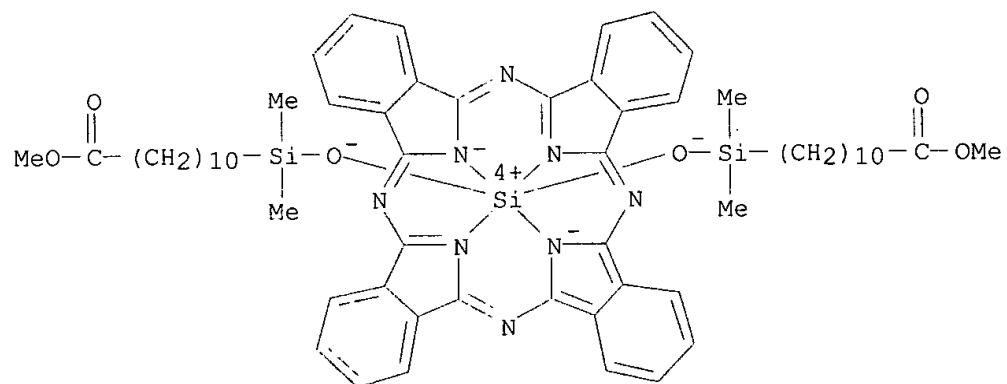
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CN Silicon, bis[dimethyl(3,3,4,4,5,5,6,6,7,7,8,8,8-  
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g:2'',3''-l:2'',3'''-q]porphyrzinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39  
.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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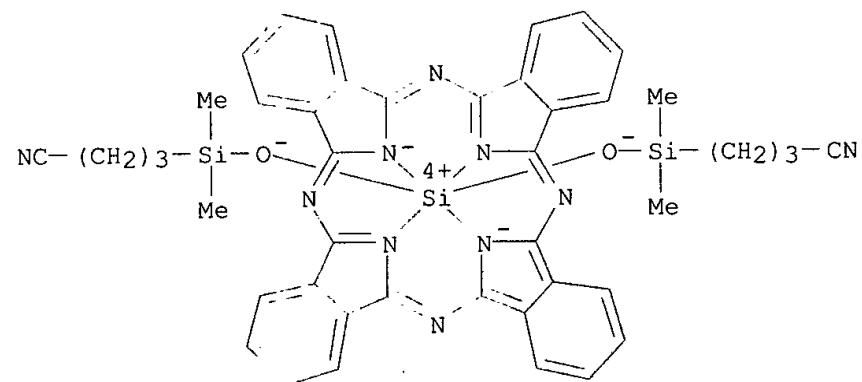


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RN 163969-08-2 HCPLUS  
CN Silicon, bis[4-[ (hydroxy-.kappa.O)dimethylsilyl]butanenitrilato][29H, 31H-phthalocyaninato(2-).kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-, (OC-6-12)- (9CI) (CA INDEX NAME)

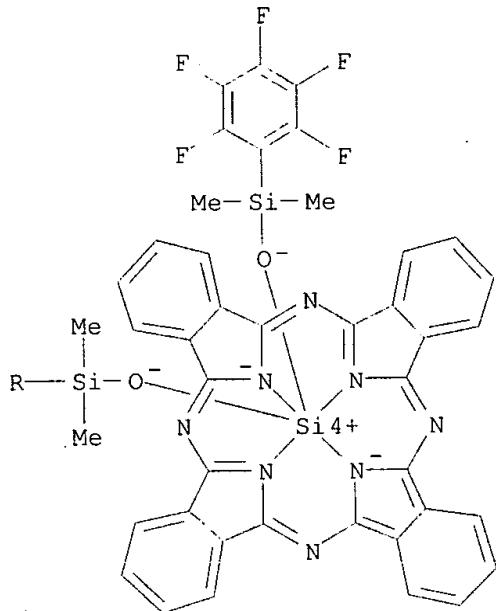


RN 163969-09-3 HCPLUS  
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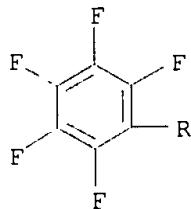
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phthalocyaninato(2-)-.kappa.N29,.kappa.N30,.kappa.N31,.kappa.N32]-,  
(OC-6-12)- (9CI) (CA INDEX NAME)

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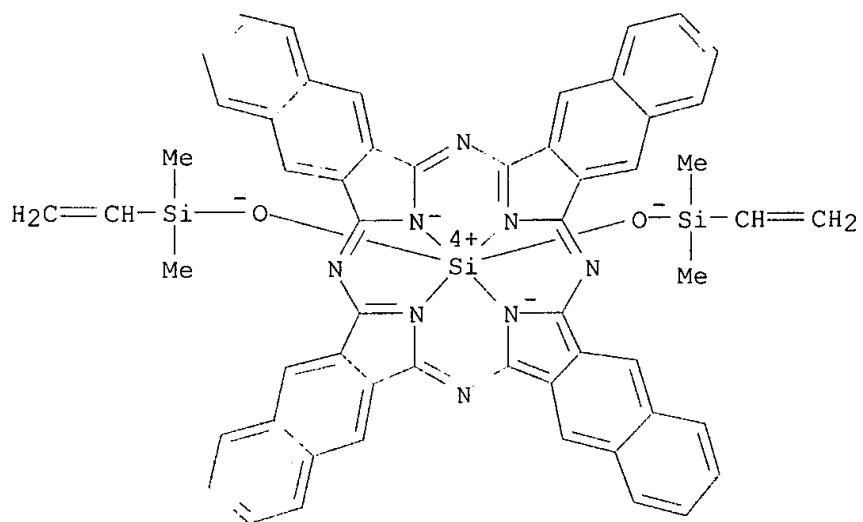


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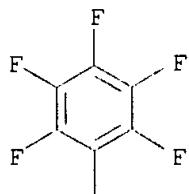
CN Silicon, bis(ethenylidimethylsilanolato)[37H,39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

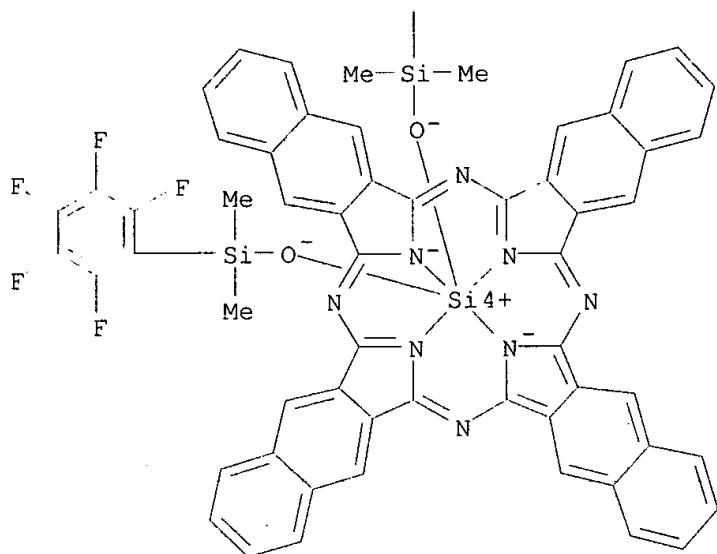


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CN Silicon, bis[dimethyl(pentafluorophenyl)silanolato-.kappa.O] [37H, 39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

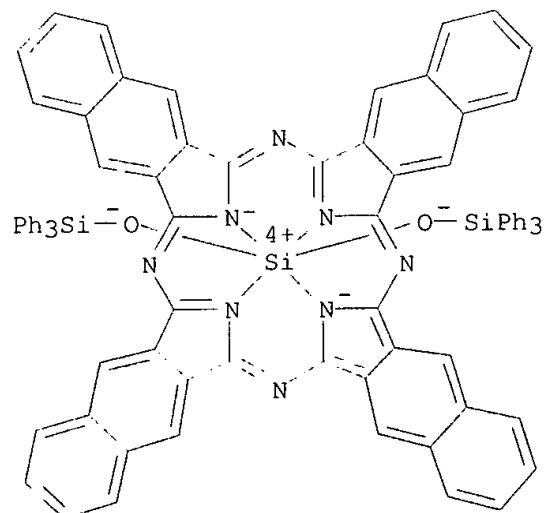
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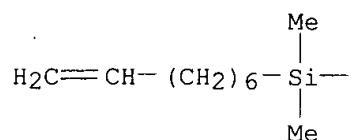
CN Silicon, [37H, 39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrazinato(2-)-.kappa.N37,.kappa.N38,.kappa.N39,.kappa.N40]bis(tri phenylsilyl) -, (OC-6-12)- (9CI) (CA INDEX NAME)



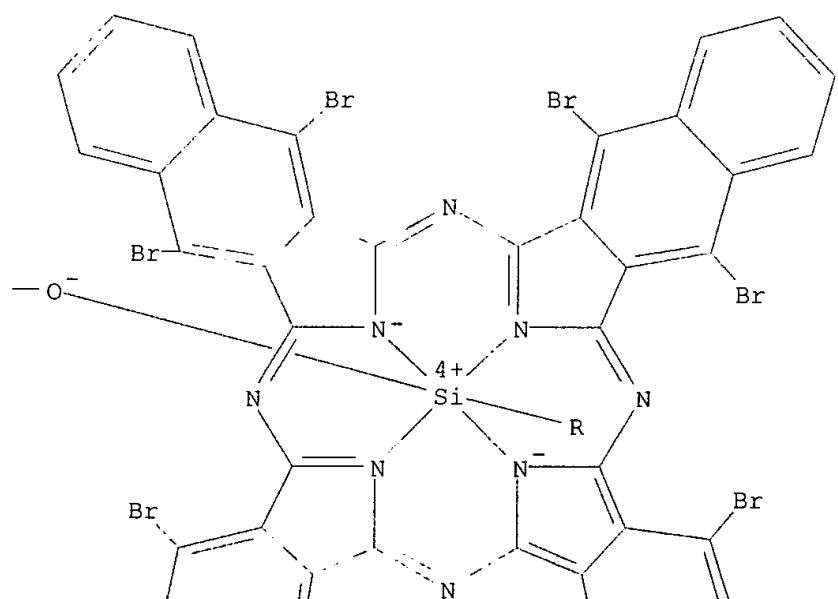
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CN Silicon, bis(dimethyl-7-octenylsilanolato)[5,9,14,18,23,27,32,36-octabromo-37H, 39H-tetranaphtho[2,3-b:2',3'-g:2'',3''-l:2''',3'''-q]porphyrazinato(2-) -N37,N38,N39,N40]-, (OC-6-12)- (9CI) (CA INDEX NAME)

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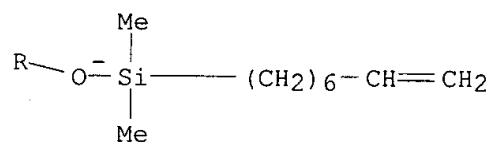


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